EXHIBIT A

Filed Under Seal

EXHIBIT A - FILED UNDER SEAL

Exhibit F

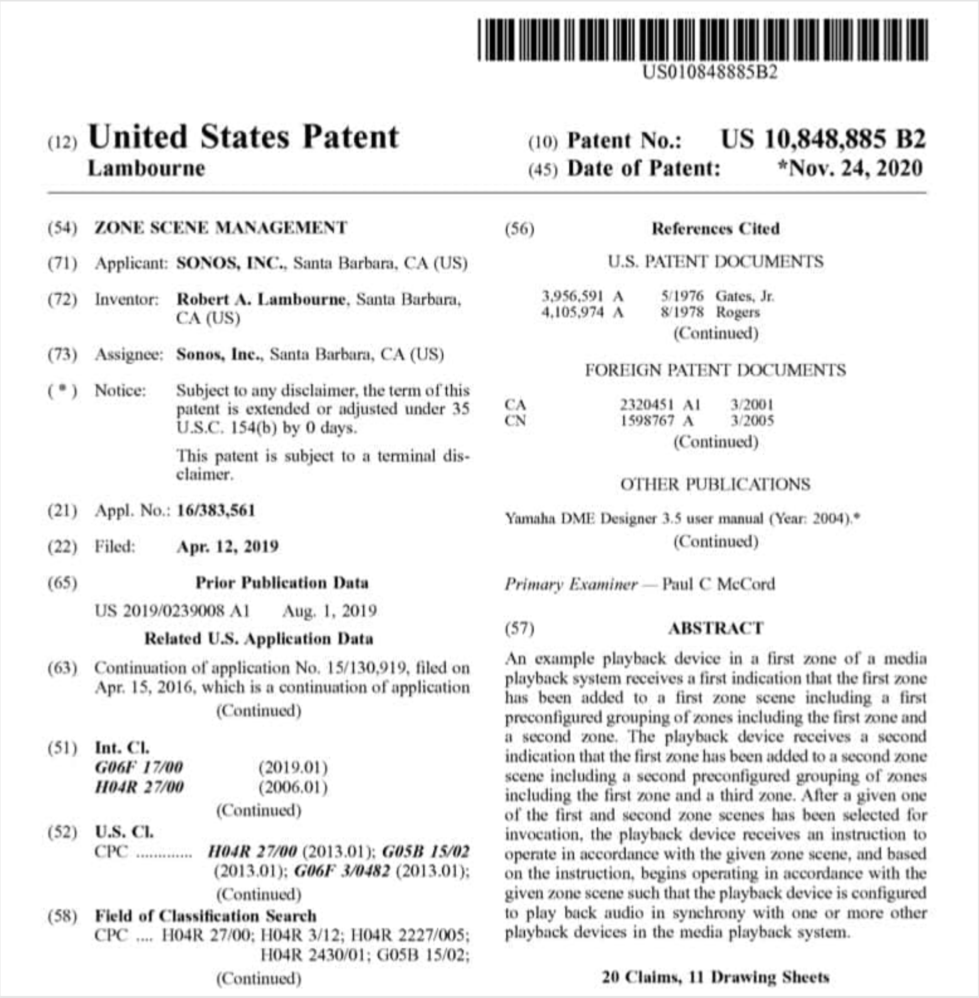
Case No. 3:20-cv-06754-WHA
Related to Case No. 3:21-cv-07559-WHA

Sonos v. Google

Dr. Kevin Almeroth

March 21, 2023

Assignment – Validity of ’885 Patent



US010848885B2

(12) **United States Patent**
Lambourne

(10) **Patent No.: US 10,848,885 B2**
(45) **Date of Patent: *Nov. 24, 2020**

(54) **ZONE SCENE MANAGEMENT**

(71) Applicant: **SONOS, INC.**, Santa Barbara, CA (US)

(72) Inventor: **Robert A. Lambourne**, Santa Barbara, CA (US)

(73) Assignee: **Sonos, Inc.**, Santa Barbara, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **16/383,561**

(22) Filed: **Apr. 12, 2019**

(65) **Prior Publication Data**

US 2019/0239008 A1 Aug. 1, 2019

Related U.S. Application Data

(63) Continuation of application No. 15/130,919, filed on Apr. 15, 2016, which is a continuation of application
(Continued)

(51) **Int. Cl.**
G06F 17/00 (2019.01)
H04R 27/00 (2006.01)
(Continued)

(52) **U.S. Cl.**
CPC ***H04R 27/00*** (2013.01); ***G05B 15/02*** (2013.01); ***G06F 3/0482*** (2013.01);
(Continued)

(58) **Field of Classification Search**
CPC H04R 27/00; H04R 3/12; H04R 2227/005; H04R 2430/01; G05B 15/02;
(Continued)

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(Continued)

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(Continued)

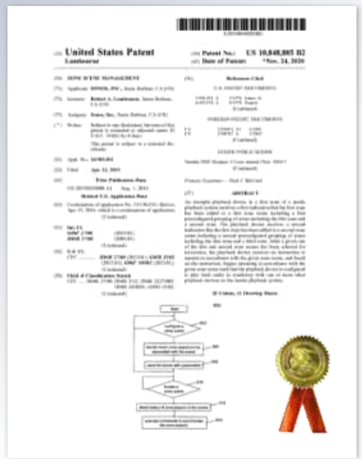
Primary Examiner — Paul C McCord

(57) **ABSTRACT**

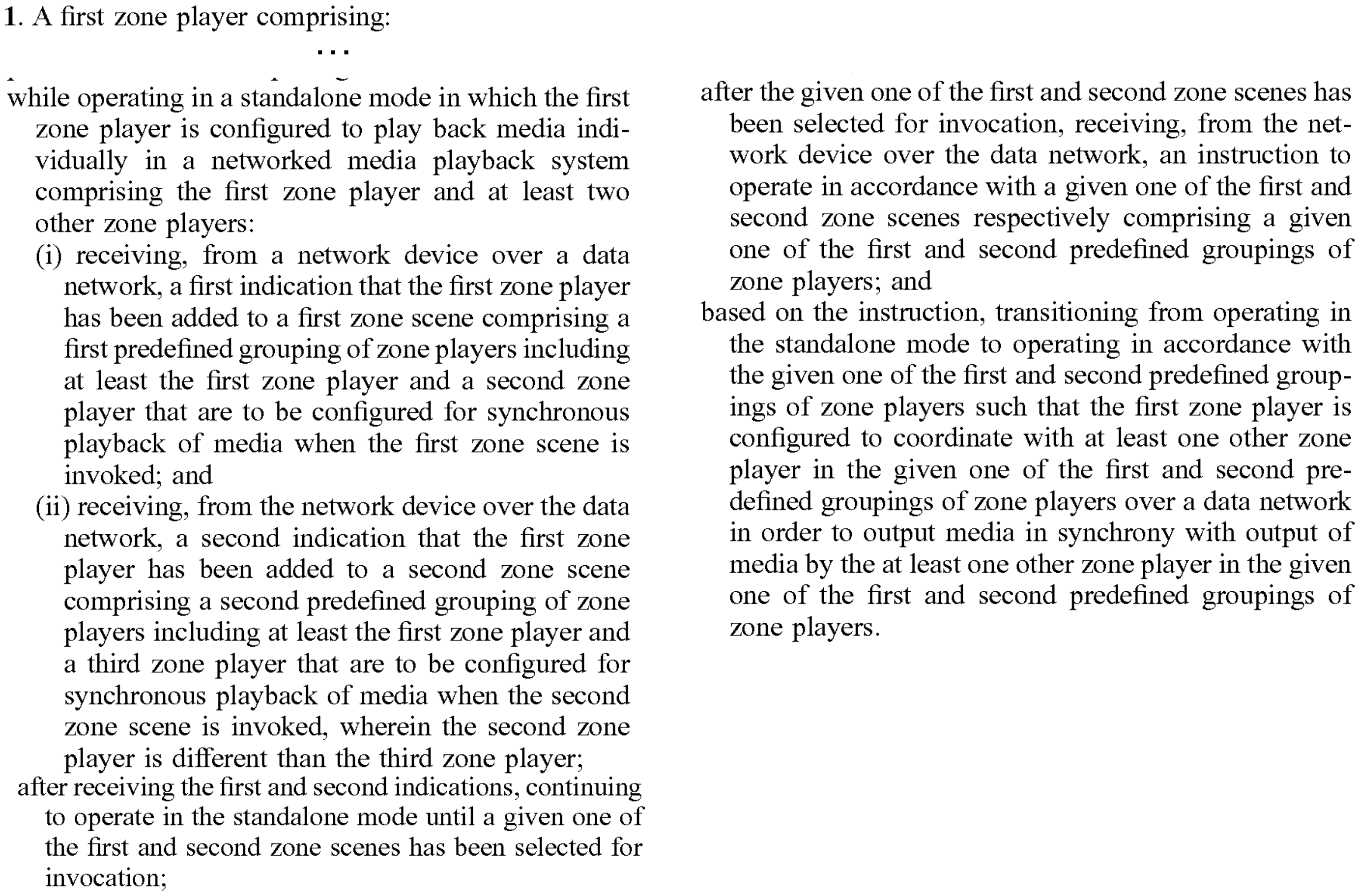
An example playback device in a first zone of a media playback system receives a first indication that the first zone has been added to a first zone scene including a first preconfigured grouping of zones including the first zone and a second zone. The playback device receives a second indication that the first zone has been added to a second zone scene including a second preconfigured grouping of zones including the first zone and a third zone. After a given one of the first and second zone scenes has been selected for invocation, the playback device receives an instruction to operate in accordance with the given zone scene, and based on the instruction, begins operating in accordance with the given zone scene such that the playback device is configured to play back audio in synchrony with one or more other playback devices in the media playback system.

20 Claims, 11 Drawing Sheets

Claim 1 of ’885 Patent



US 10,848,885, Claim 1



1. A first zone player comprising:

. . .

while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

(i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

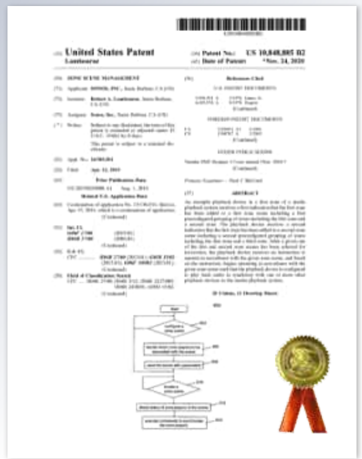
(ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Sonos's "Zone Scene" Grouping



US 10,848,885, Claim 1

1. A first zone player comprising:

. . .

while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

(i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

(ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Setup

Invocation

Sonos's "Zone Scene" Grouping

Claim 1 of '885 Patent

[1.0] A first zone player comprising:

…

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

Setup

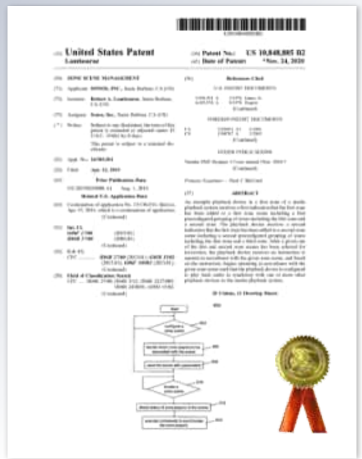
[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

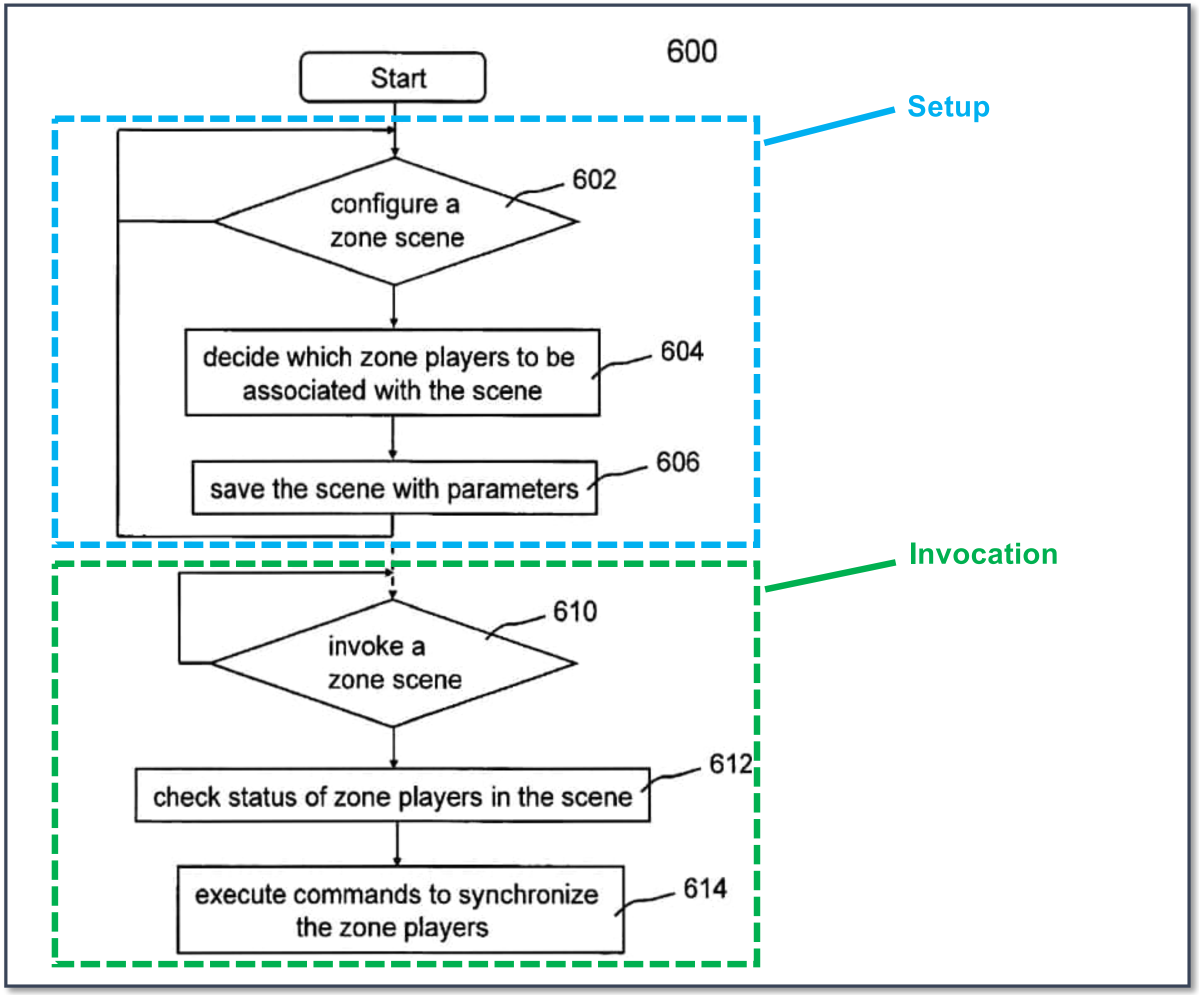
[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Invocation

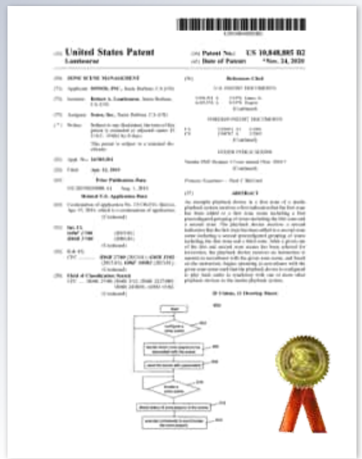
Sonos's "Zone Scene" Grouping



US 10,848,885, Fig. 6


600
Start
Setup
configure a zone scene
602
decide which zone players to be associated with the scene
604
save the scene with parameters
606
Invocation
invoke a zone scene
610
check status of zone players in the scene
612
execute commands to synchronize the zone players
614

Sonos's "Zone Scene" Grouping



US 10,848,885
Figs. 1, 2B

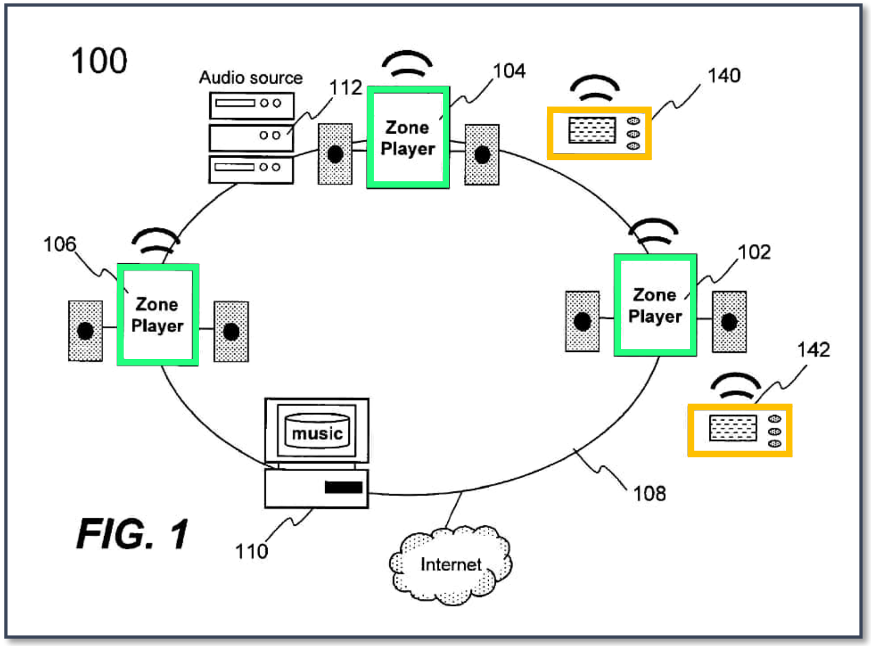

100
Audio source
112
104
140
Zone Player
106
Zone Player
102
Zone Player
142
music
108
110
Internet

FIG. 1

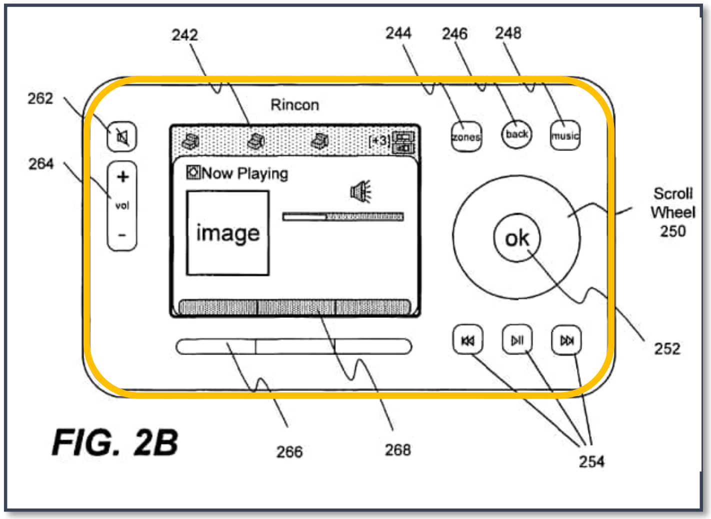
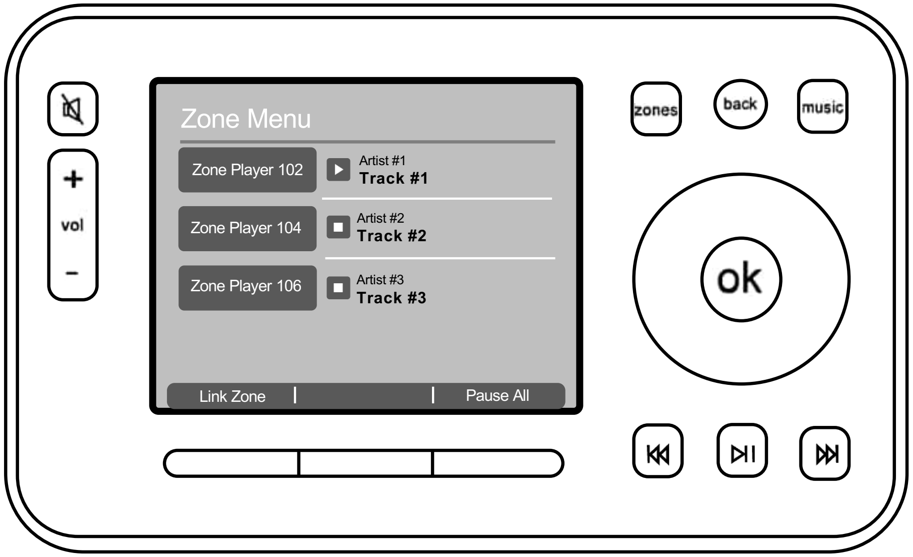

242
244
246
248
262
264
Rincon
zones
back
music
Now Playing
image
+
vol
-
ok
Scroll Wheel 250
252
266
268
254

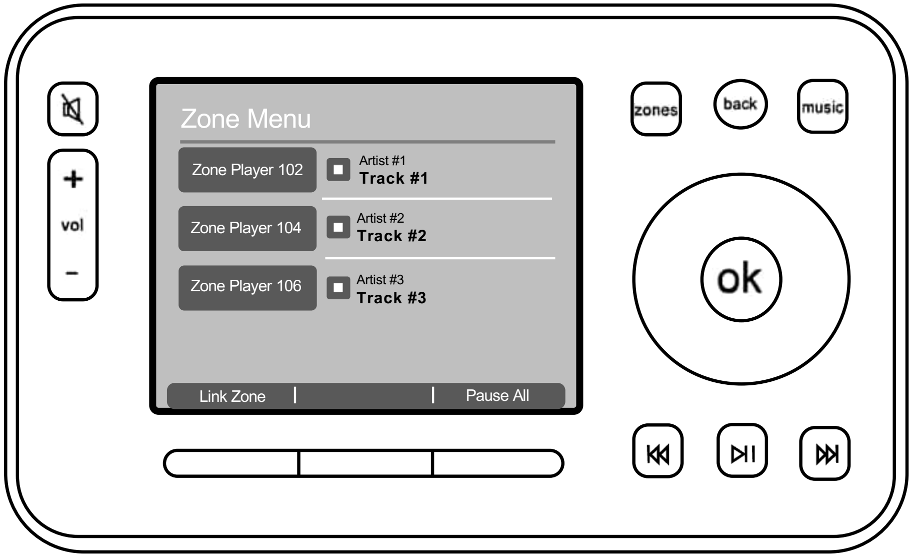
FIG. 2B

EXHIBIT A - FILED UNDER SEAL

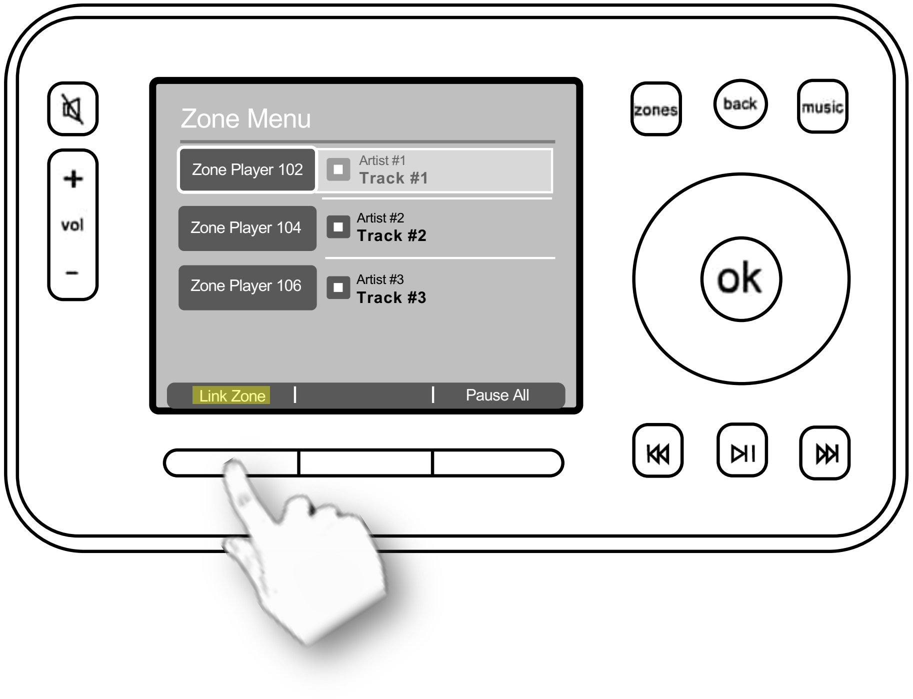
Sonos's Ad-Hoc Grouping


Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Link Zone
Pause All
vol
zones
back
music
ok

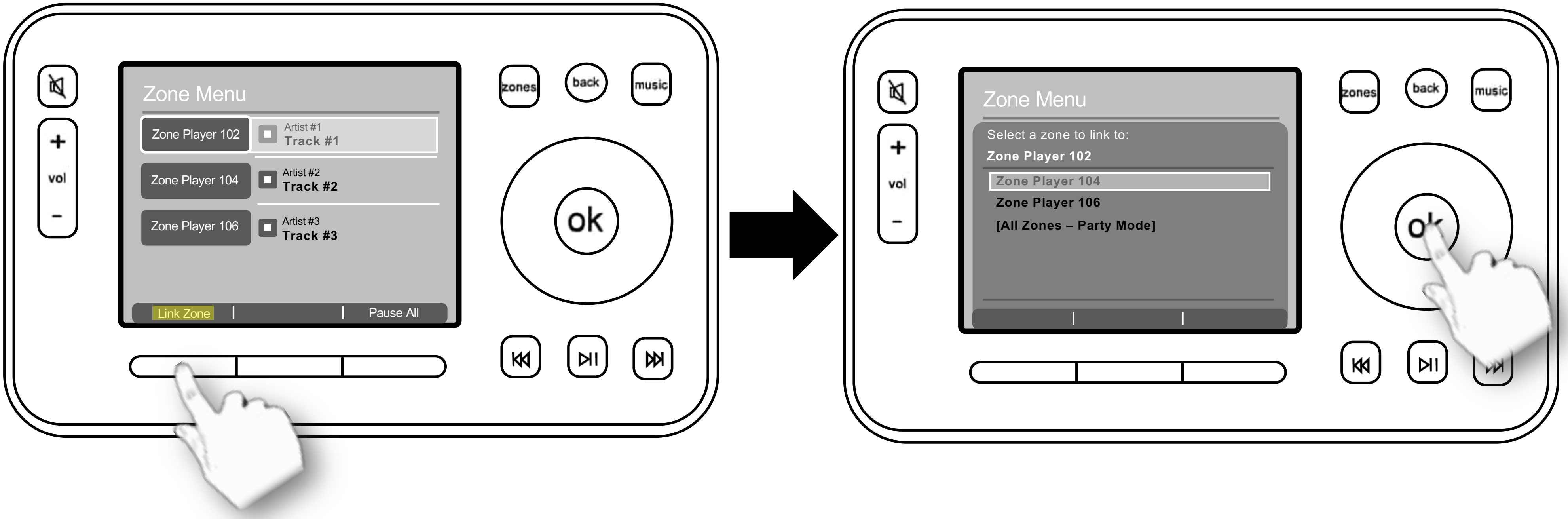
Sonos's Ad-Hoc Grouping


Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Link Zone
Pause All
vol
zones
back
music
ok

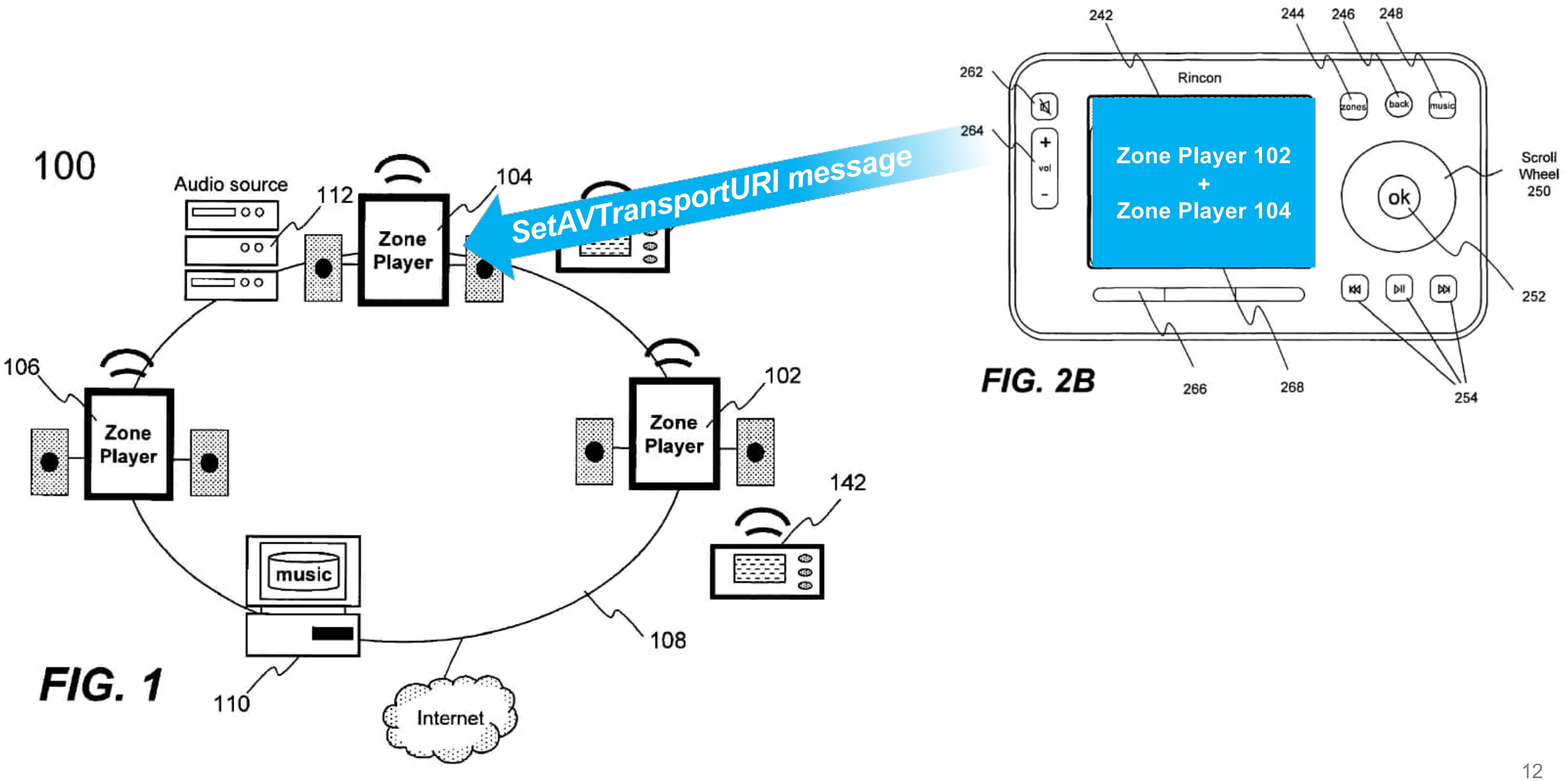
Sonos's Ad-Hoc Grouping


Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Link Zone
Pause All
vol
zones
back
music
ok

Sonos’s Ad-Hoc Grouping


vol
Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Link Zone
Pause All
zones
back
music
ok
vol
Zone Menu
Select a zone to link to:
Zone Player 102
Zone Player 104
Zone Player 106
[All Zones – Party Mode]
zones
back
music
ok

Sonos's Ad-Hoc Grouping – Groups Can Only Exist in Invoked State


100
Audio source
112
104
Zone Player
106
Zone Player
102
Zone Player
142
music
110
Internet
108
242
244
246
248
262
264
Rincon
zones
back
music
vol
ok
Scroll Wheel 250
252
266
268
254

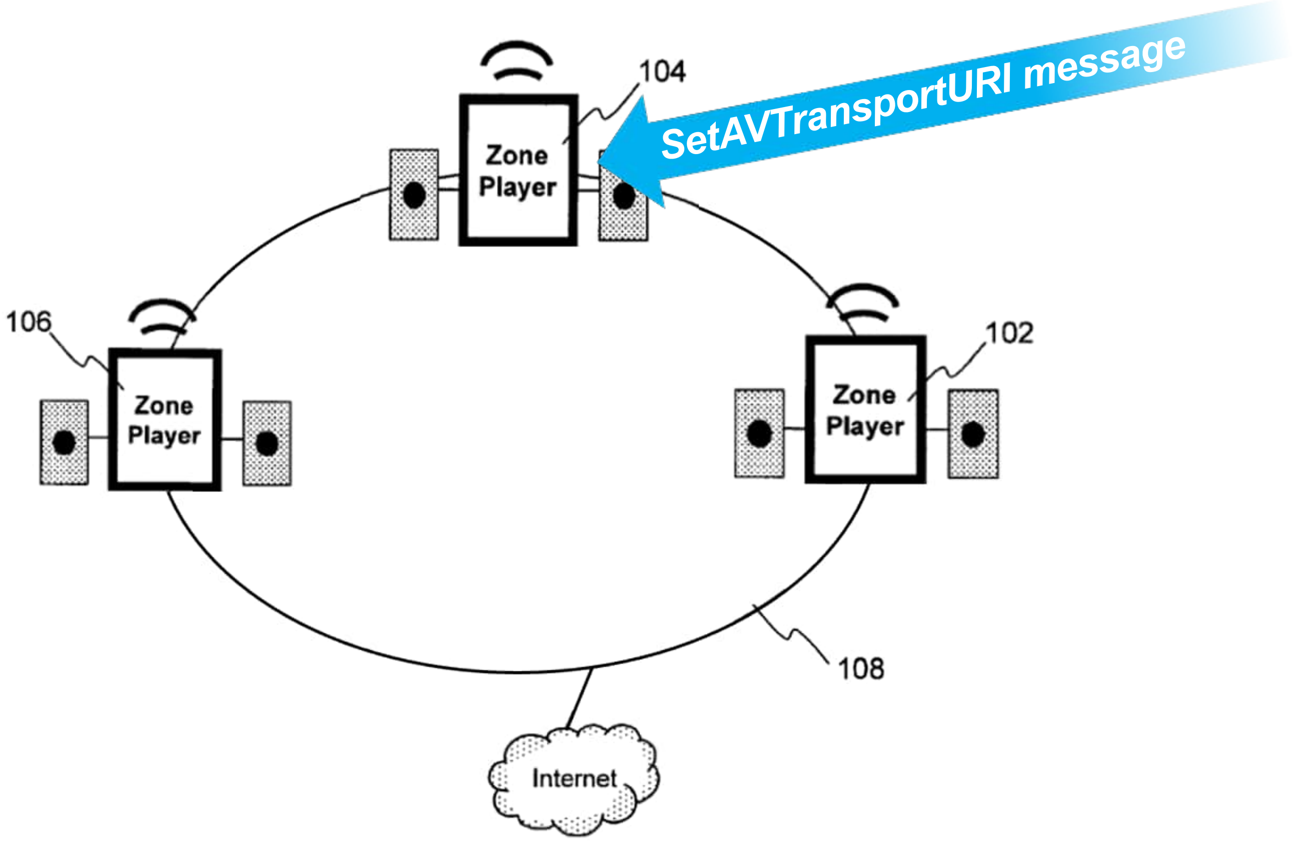
SetAVTransportURI message

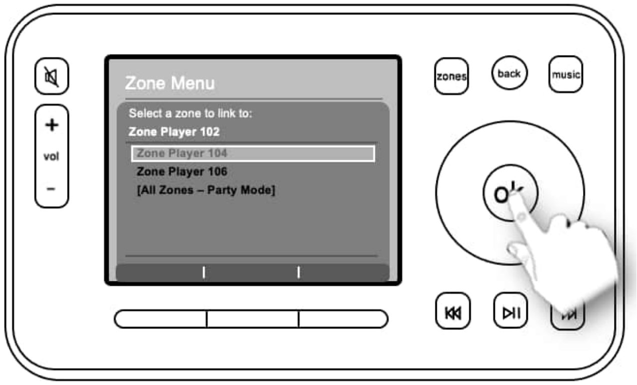
Zone Player 102
+
Zone Player 104

FIG. 1

FIG. 2B

Sonos's Ad-Hoc Grouping – Groups Can Only Exist in Invoked State


SetAVTransportURI message
104
Zone Player
106
Zone Player
102
Zone Player
108
Internet


Zone Menu
Select a zone to link to:
Zone Player 102
Zone Player 104
Zone Player 106
[All Zones – Party Mode]
vol
+
-
zones
back
music
ok

First Zone Group
Zone Player 102 + Zone Player 104

Sonos's Ad-Hoc Grouping – Groups Can Only Exist in Invoked State

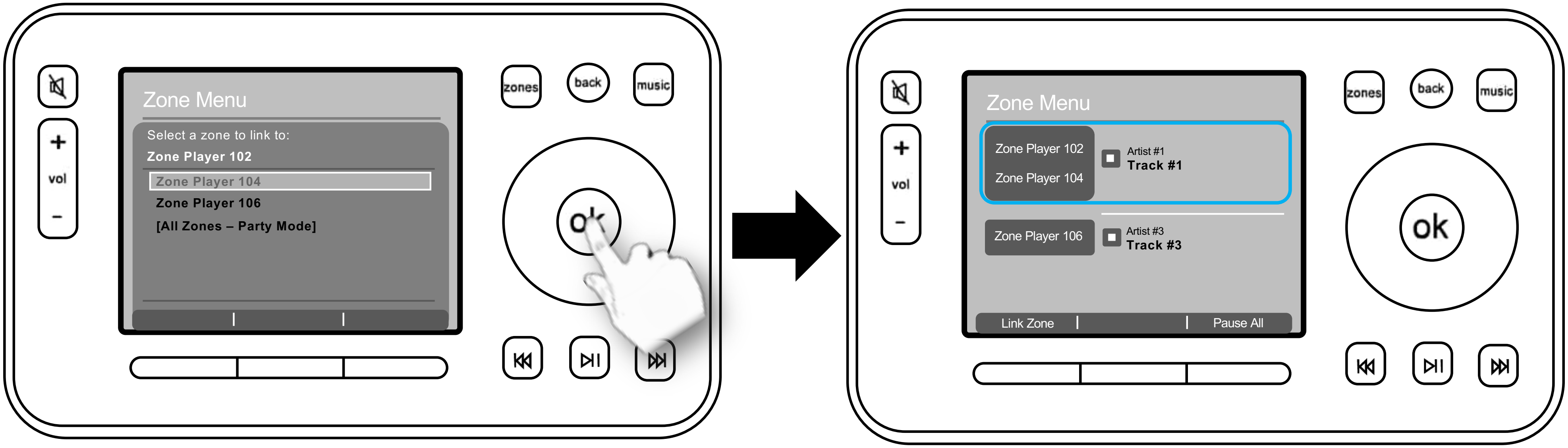

zones
back
music
vol
Zone Menu
Select a zone to link to:
Zone Player 102
Zone Player 104
Zone Player 106
[All Zones – Party Mode]
ok
zones
back
music
vol
Zone Menu
Zone Player 102
Zone Player 104
Artist #1
Track #1
Zone Player 106
Artist #3
Track #3
Link Zone
Pause All
ok

EXHIBIT A - FILED UNDER SEAL

Sonos's Ad-Hoc Grouping – Groups Can Only Exist in Invoked State

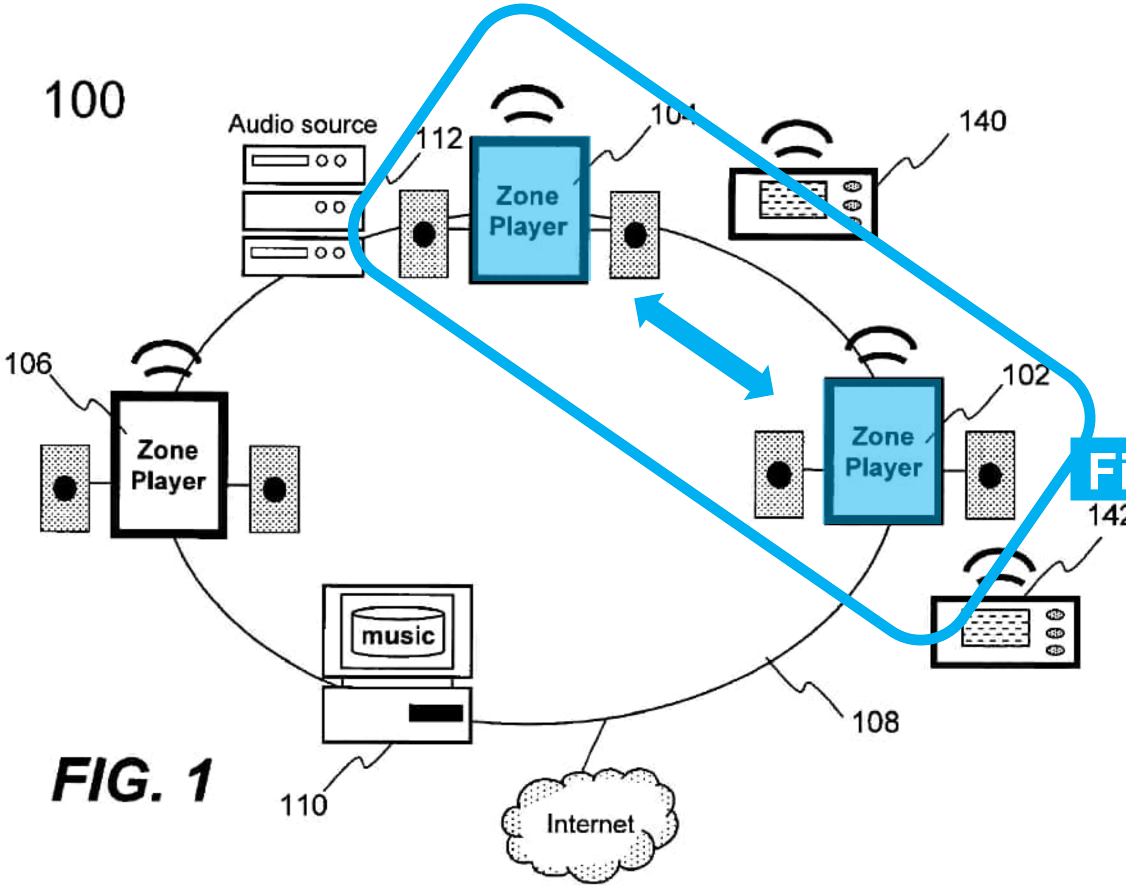
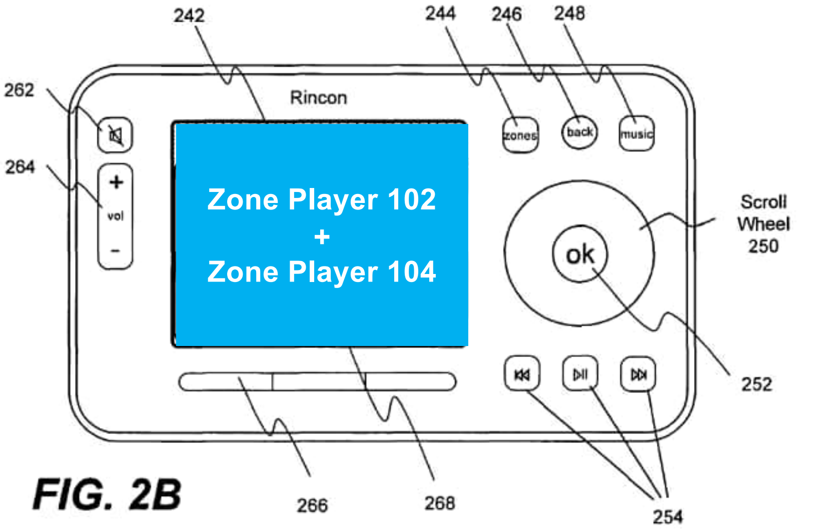

100
Audio source
112
104
140
Zone Player
Zone Player
106
Zone Player
102
142
music
108
110
Internet

FIG. 1

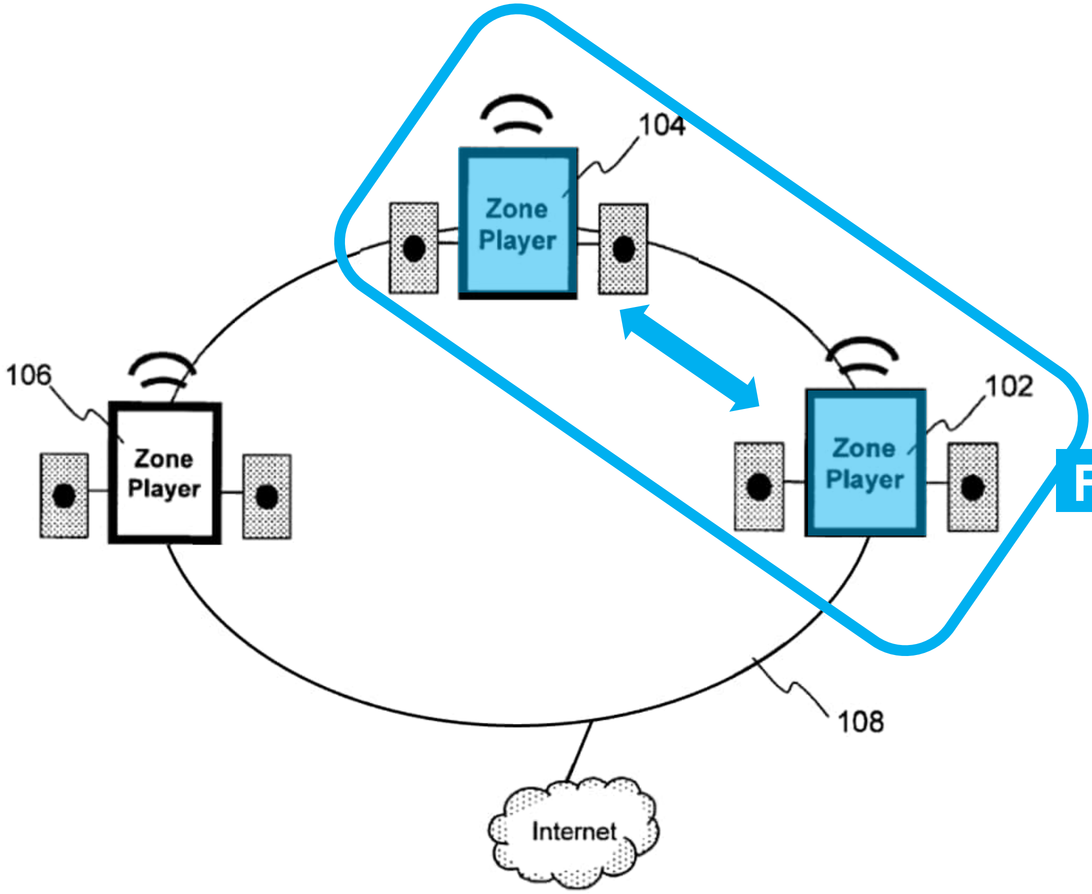
First Zone Group


242
244
246
248
262
264
Rincon
zones
back
music
vol
ok
Scroll Wheel 250
252
266
268
254

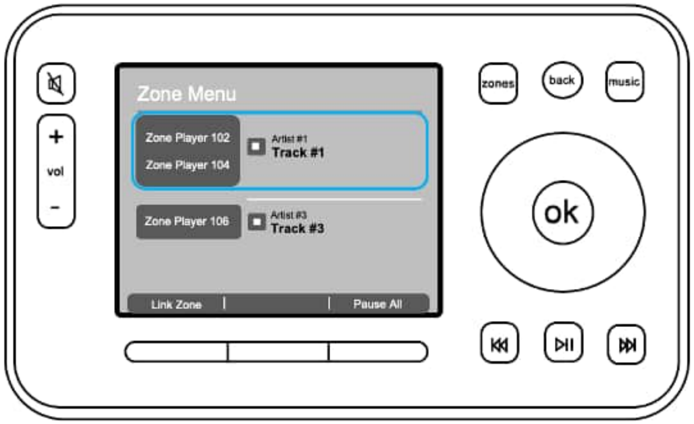
Zone Player 102
+
Zone Player 104

FIG. 2B

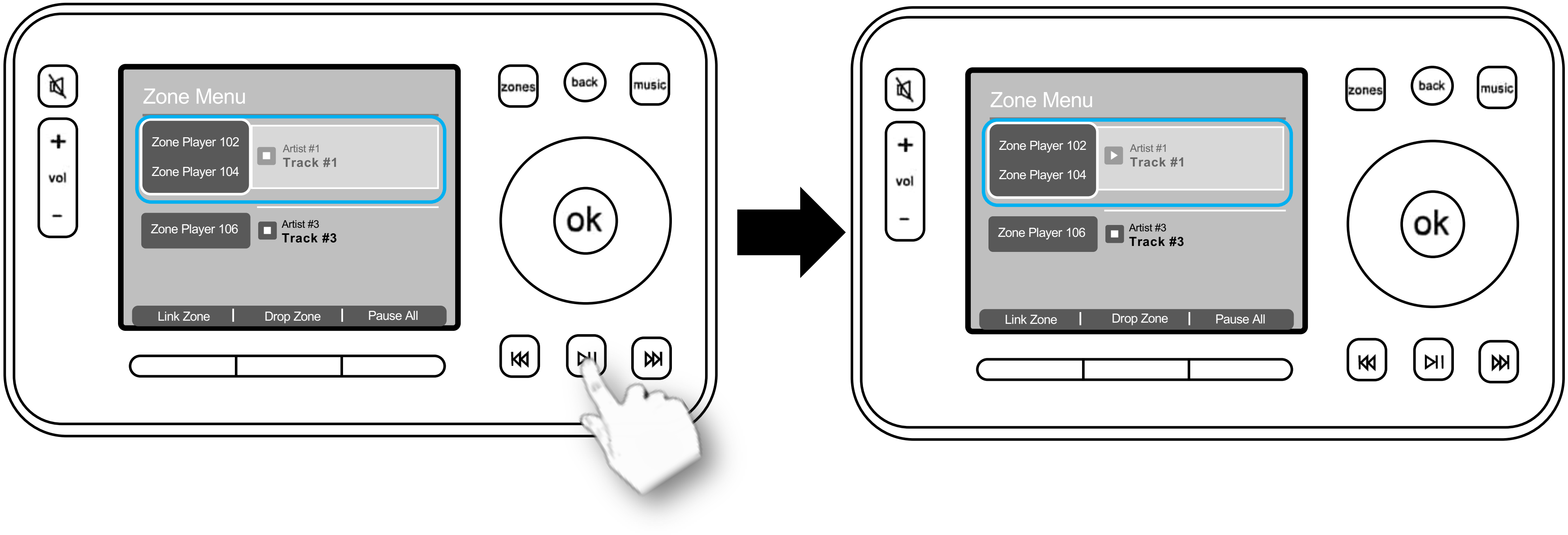
Sonos's Ad-Hoc Grouping – Groups Can Only Exist in Invoked State


104
Zone Player
106
Zone Player
102
Zone Player
108
Internet

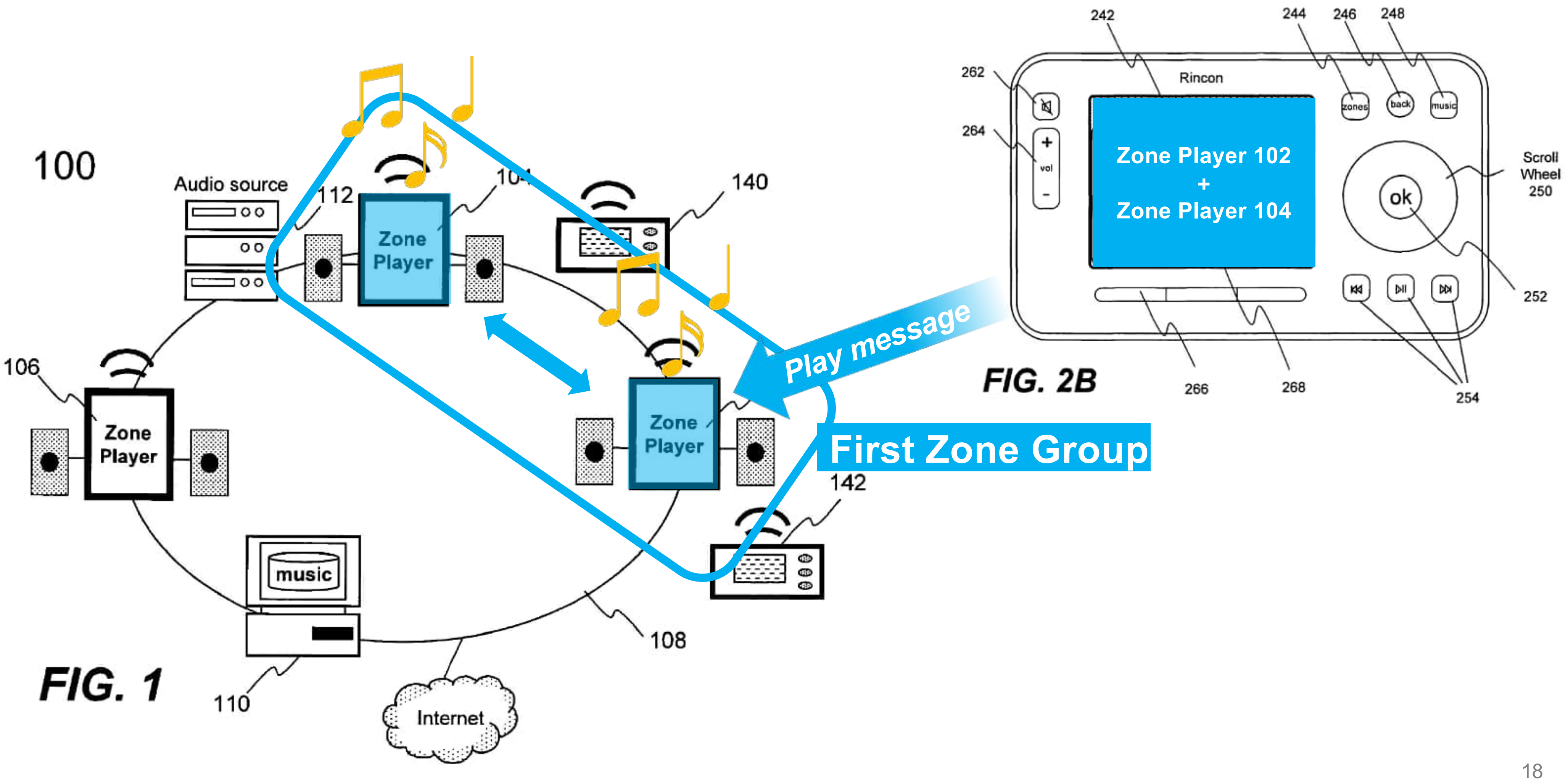
First Zone Group


+
vol
-
Zone Menu
Zone Player 102
Zone Player 104
Artist #1
Track #1
Zone Player 106
Artist #3
Track #3
Link Zone
Pause All
zones
back
music
ok

Sonos's Ad-Hoc Grouping – Initiating Playback After Invocation


Zone Menu
Zone Player 102
Zone Player 104
Artist #1
Track #1
Zone Player 106
Artist #3
Track #3
Link Zone
Drop Zone
Pause All
zones
back
music
+
vol
-
ok
Zone Menu
Zone Player 102
Zone Player 104
Artist #1
Track #1
Zone Player 106
Artist #3
Track #3
Link Zone
Drop Zone
Pause All
zones
back
music
+
vol
-
ok

Sonos's Ad-Hoc Grouping – Initiating Playback After Invocation


100
Audio source
112
104
140
Zone Player
Zone Player
Zone Player
106
142
music
108
110
Internet
242
244
246
248
262
264
Rincon
zones
back
music
vol
ok
Scroll Wheel 250
252
266
268
254

Zone Player 102
+
Zone Player 104

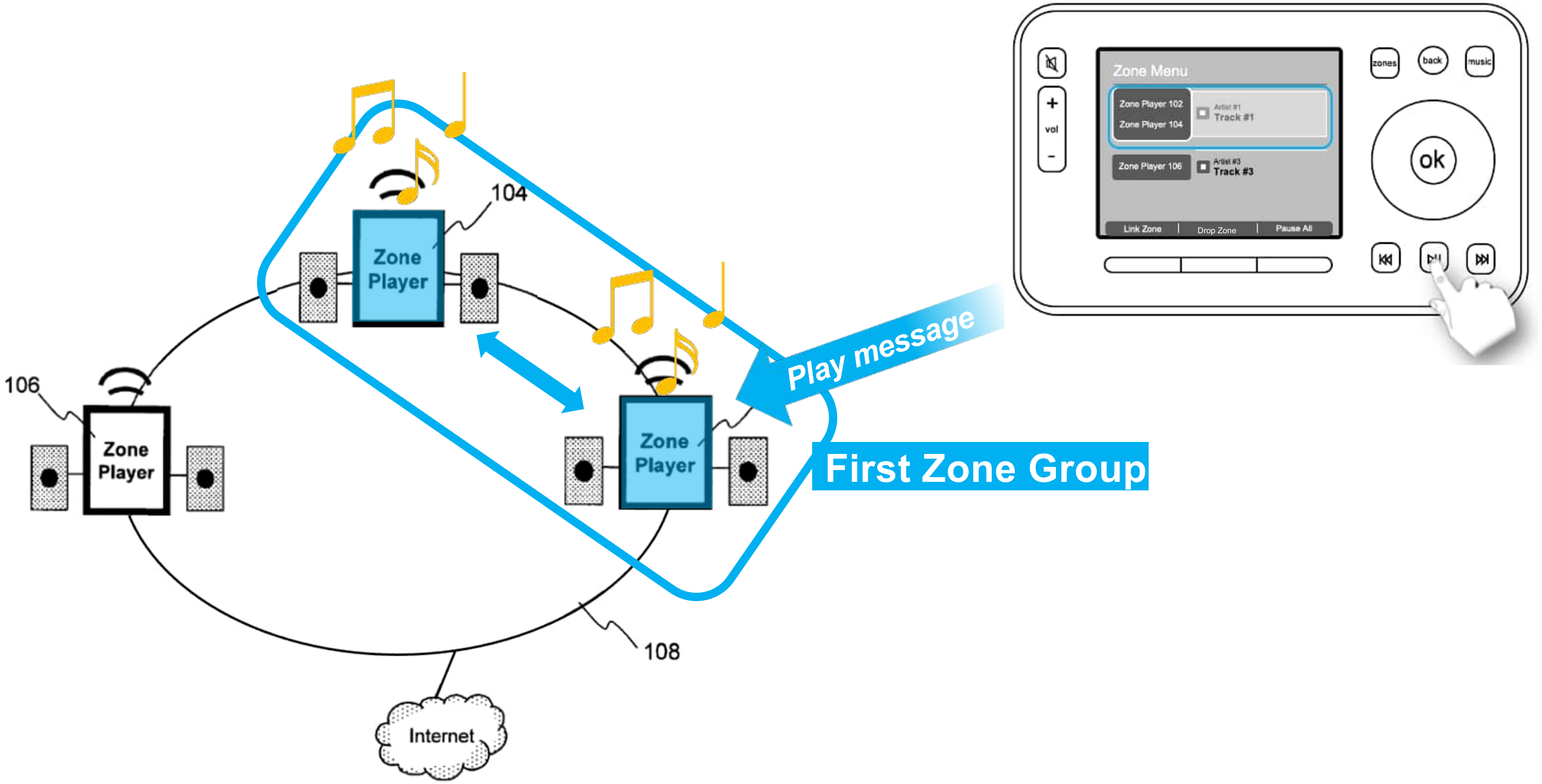
Play message

First Zone Group

FIG. 1

FIG. 2B

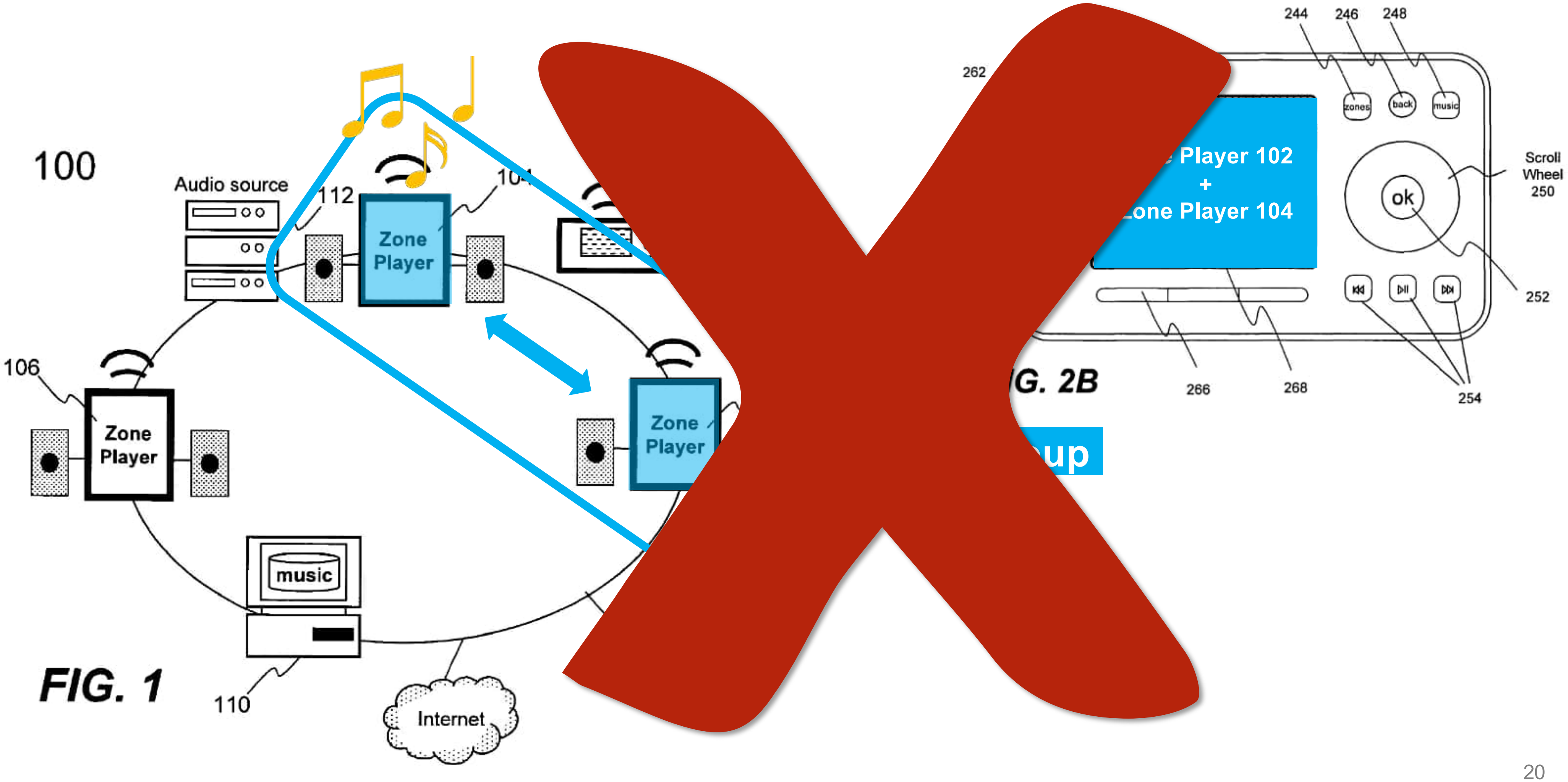
Sonos's Ad-Hoc Grouping – Initiating Playback After Invocation


104
Zone Player
106
Zone Player
Zone Player
108
Internet
Zone Menu
Zone Player 102
Zone Player 104
Artist #1
Track #1
Zone Player 106
Artist #3
Track #3
Link Zone
Drop Zone
Pause All
zones
back
music
vol
ok

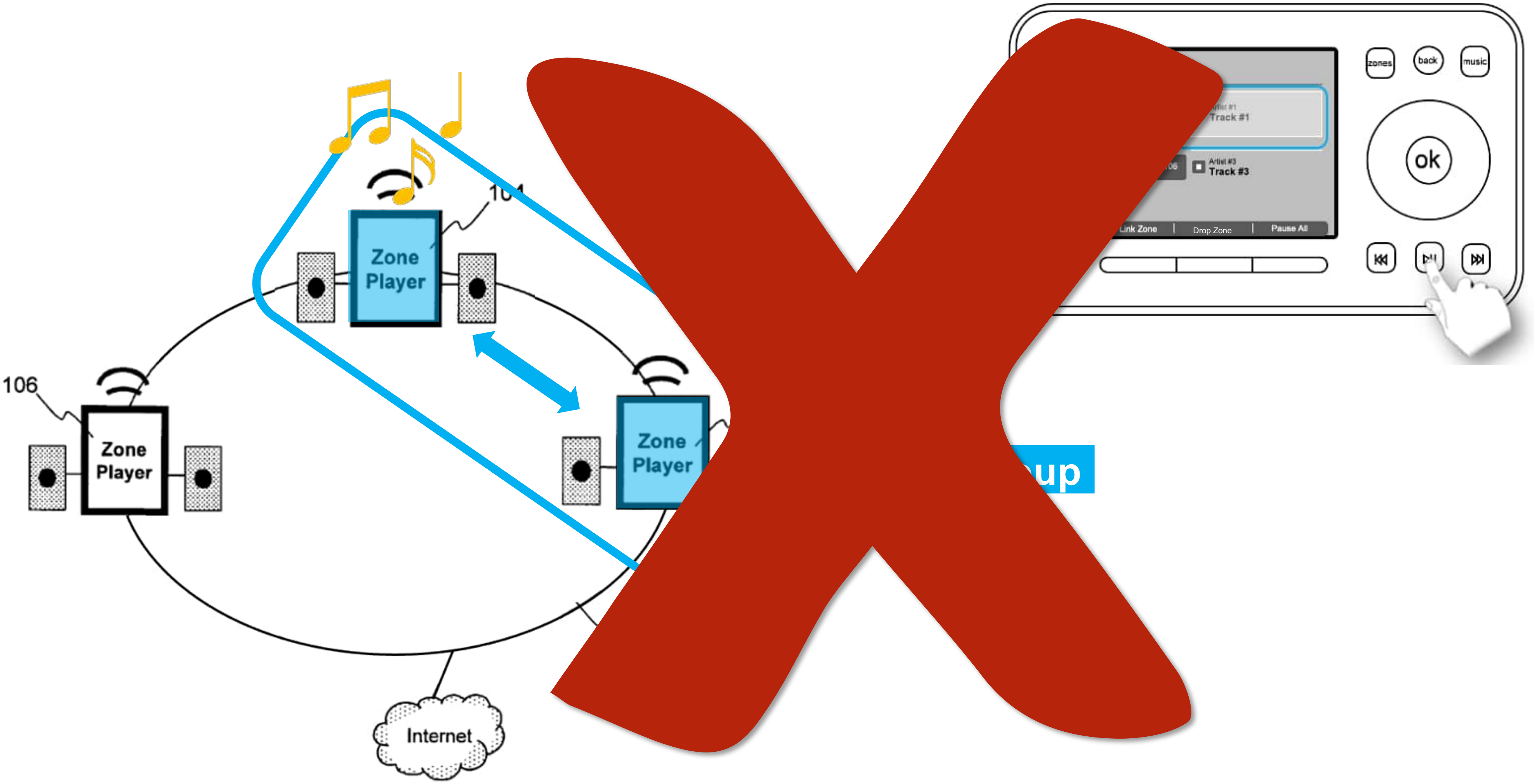
Play message

First Zone Group

Sonos's Ad-Hoc Grouping – No Standalone Use


100
Audio source
112
104
Zone Player
Zone Player
106
Zone Player
music
110
Internet
FIG. 1
244
246
248
262
zones
back
music
Player 102
+
one Player 104
ok
Scroll Wheel 250
252
266
268
254
G. 2B
up

Sonos's Ad-Hoc Grouping – No Standalone Use


104
106
Zone Player
Zone Player
Zone Player
Internet
up
zones
back
music
ok
Track #1
Artist #3
Track #3
Link Zone
Drop Zone
Pause All

Sonos's Ad-Hoc Grouping – No Overlapping Groups

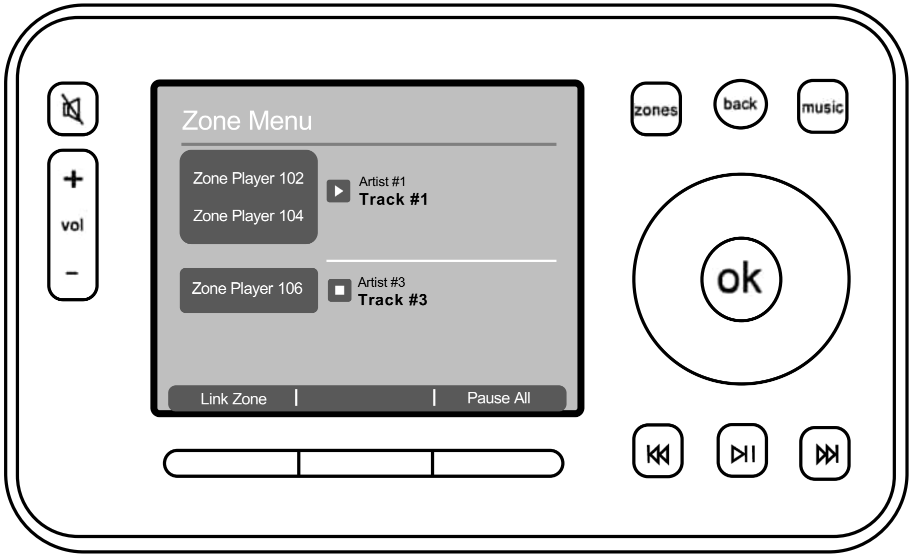
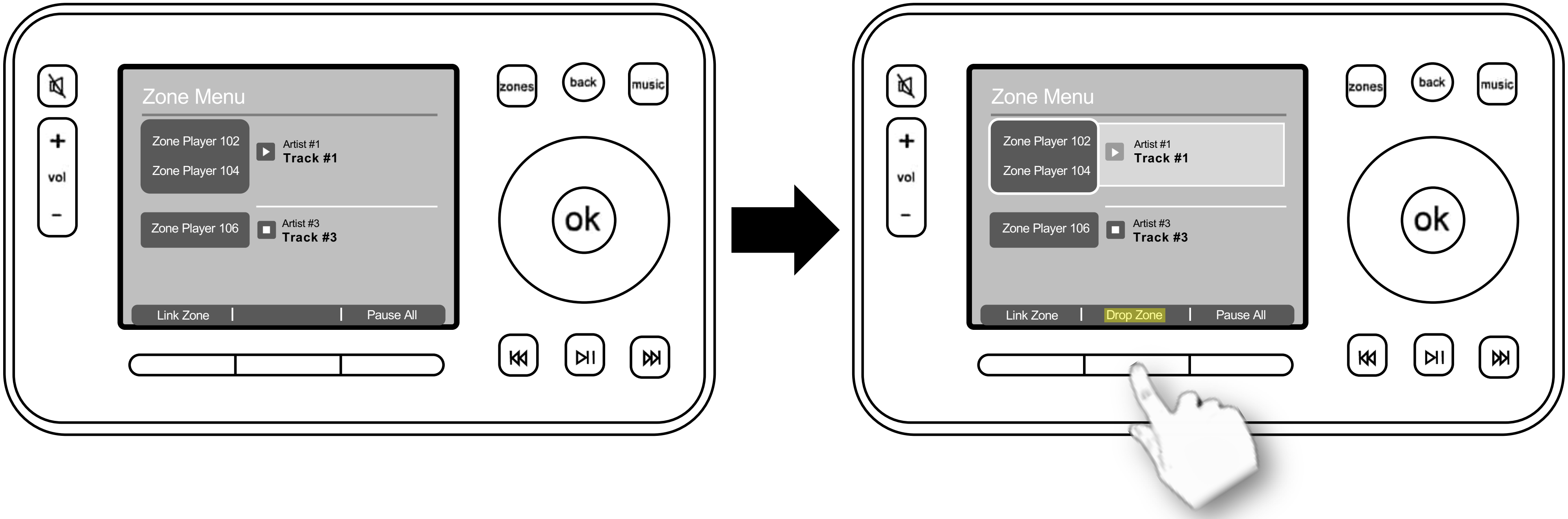
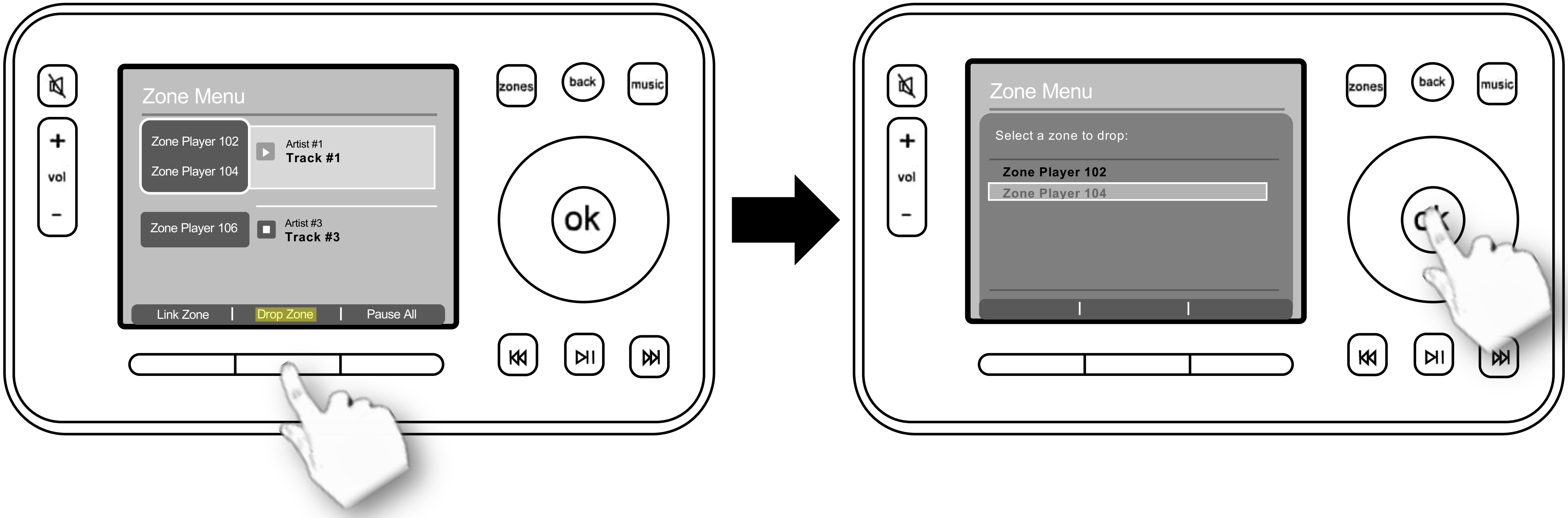

Zone Menu
Zone Player 102
Zone Player 104
Artist #1
Track #1
Zone Player 106
Artist #3
Track #3
Link Zone
Pause All
vol
zones
back
music
ok

EXHIBIT A - FILED UNDER SEAL

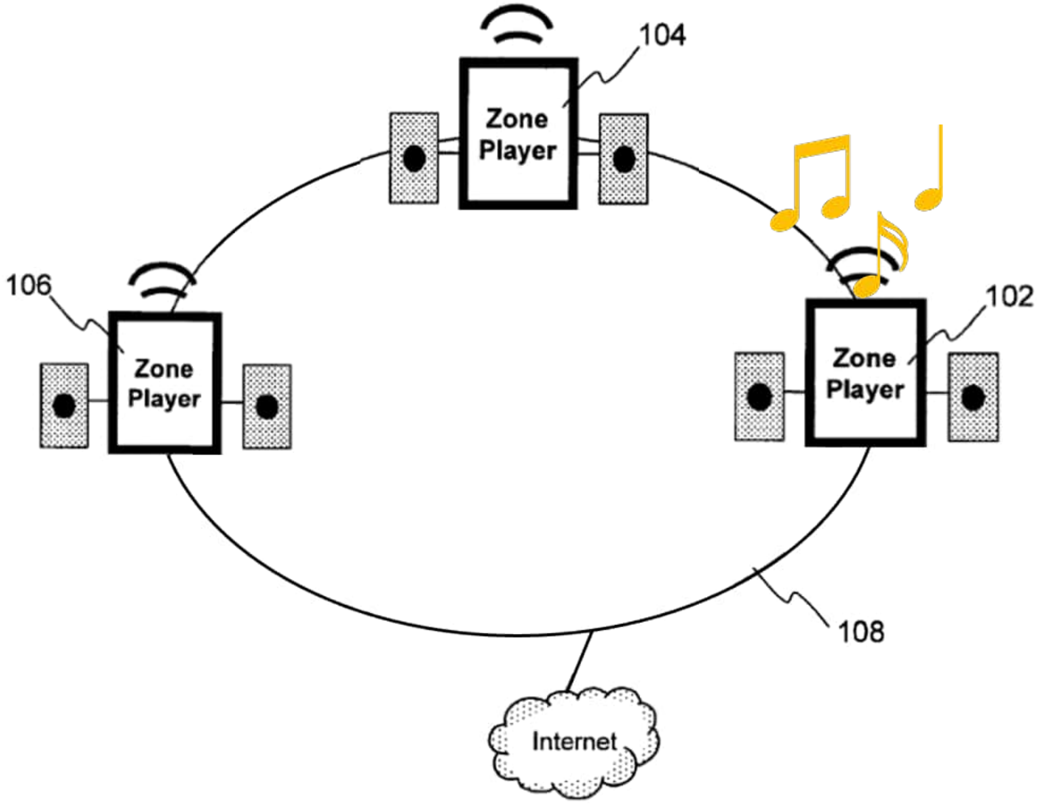
Sonos's Ad-Hoc Grouping – No Overlapping Groups

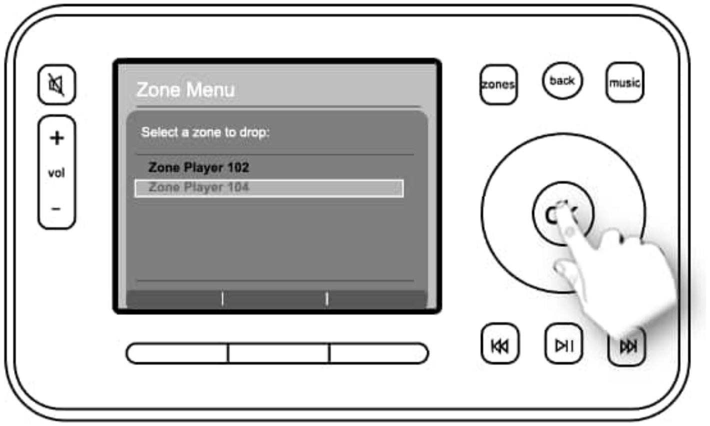

vol
Zone Menu
Zone Player 102
Zone Player 104
Artist #1
Track #1
Zone Player 106
Artist #3
Track #3
Link Zone
Pause All
zones
back
music
ok
Zone Menu
Zone Player 102
Zone Player 104
Artist #1
Track #1
Zone Player 106
Artist #3
Track #3
Link Zone
Drop Zone
Pause All
zones
back
music
ok

Sonos's Ad-Hoc Grouping – No Overlapping Groups

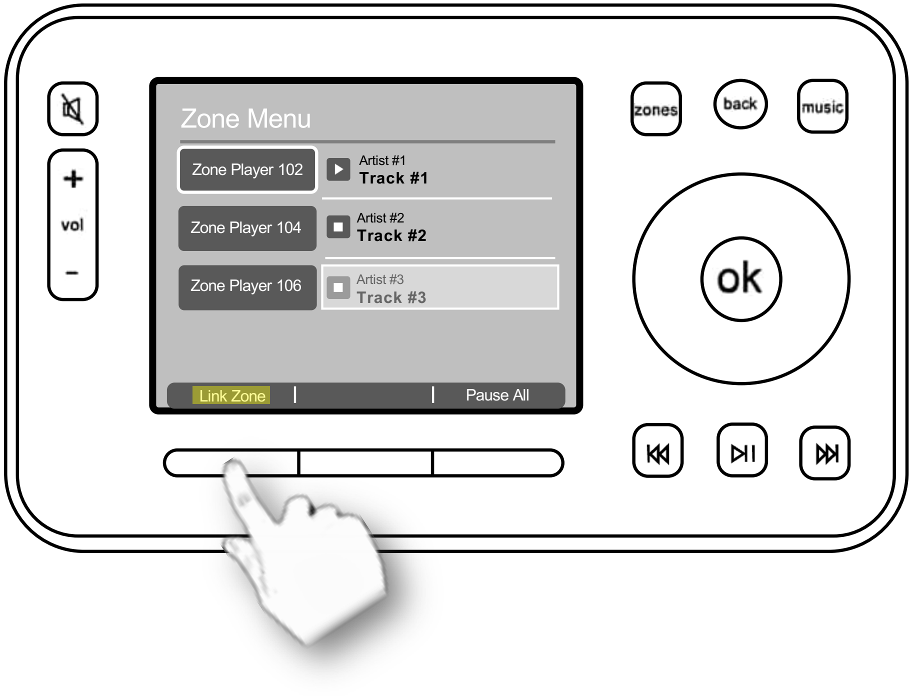

Zone Menu
Zone Player 102
Zone Player 104
Artist #1
Track #1
Zone Player 106
Artist #3
Track #3
Link Zone
Drop Zone
Pause All
vol
zones
back
music
ok
Zone Menu
Select a zone to drop:
Zone Player 102
Zone Player 104
vol
zones
back
music

Sonos's Ad-Hoc Grouping – No Overlapping Groups

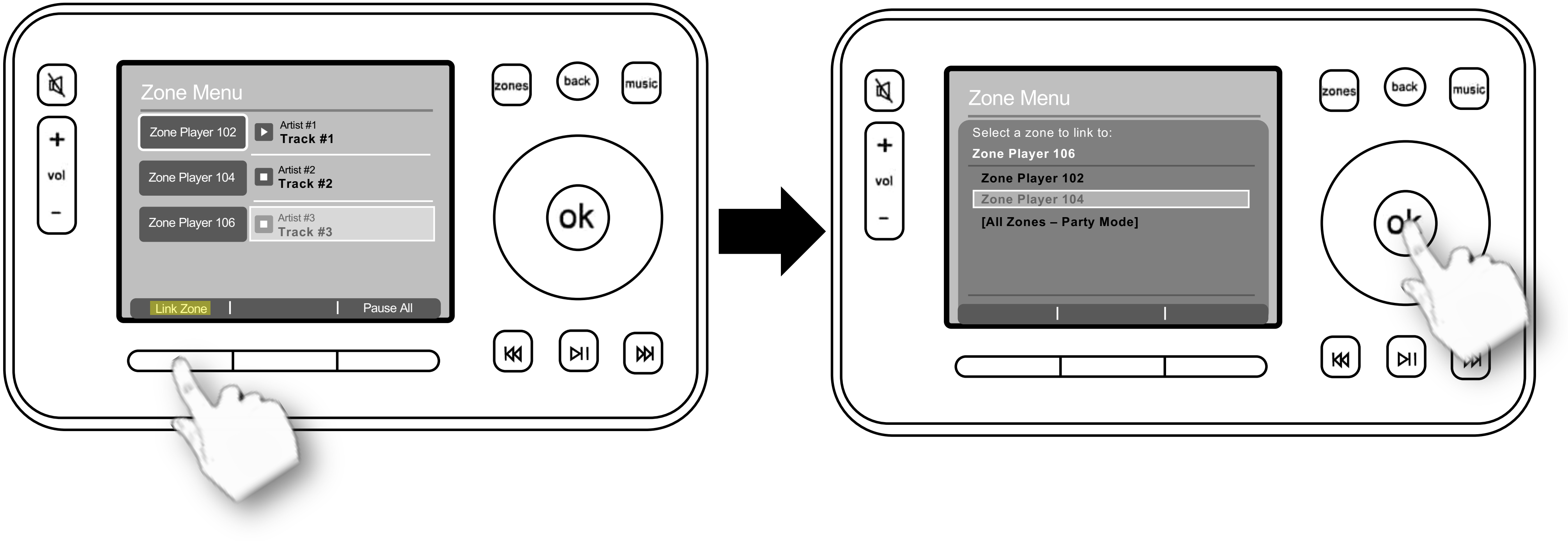

104
Zone Player
106
Zone Player
102
Zone Player
108
Internet


vol
+
-
Zone Menu
Select a zone to drop:
Zone Player 102
Zone Player 104
zones
back
music

Sonos's Ad-Hoc Grouping – No Overlapping Groups


Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Link Zone
Pause All
vol
zones
back
music
ok

Sonos’s Ad-Hoc Grouping – No Overlapping Groups


Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Link Zone
Pause All
vol
zones
back
music
ok
Zone Menu
Select a zone to link to:
Zone Player 106
Zone Player 102
Zone Player 104
[All Zones – Party Mode]
vol
zones
back
music
ok

Sonos's Ad-Hoc Grouping – No Overlapping Groups

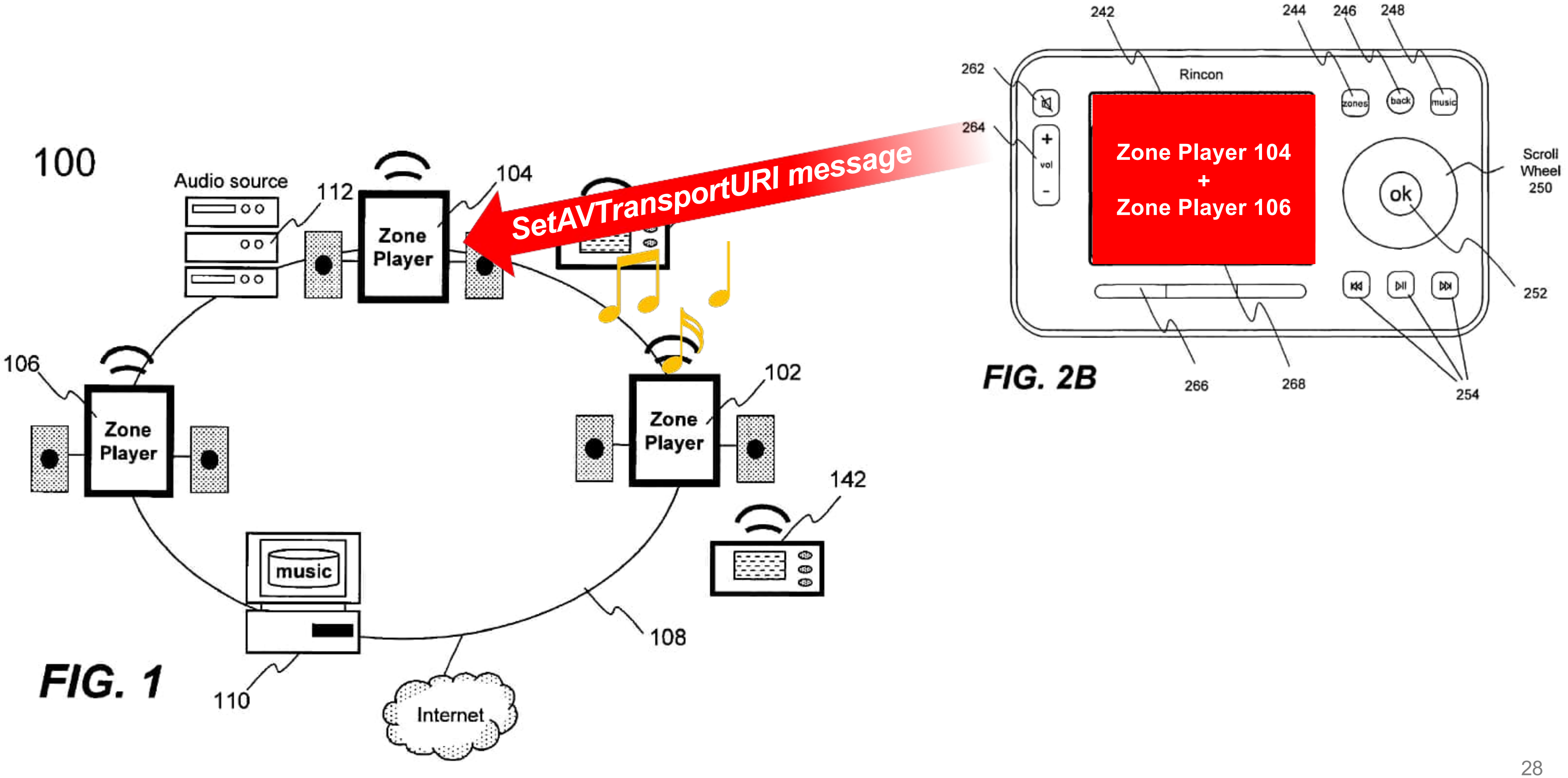
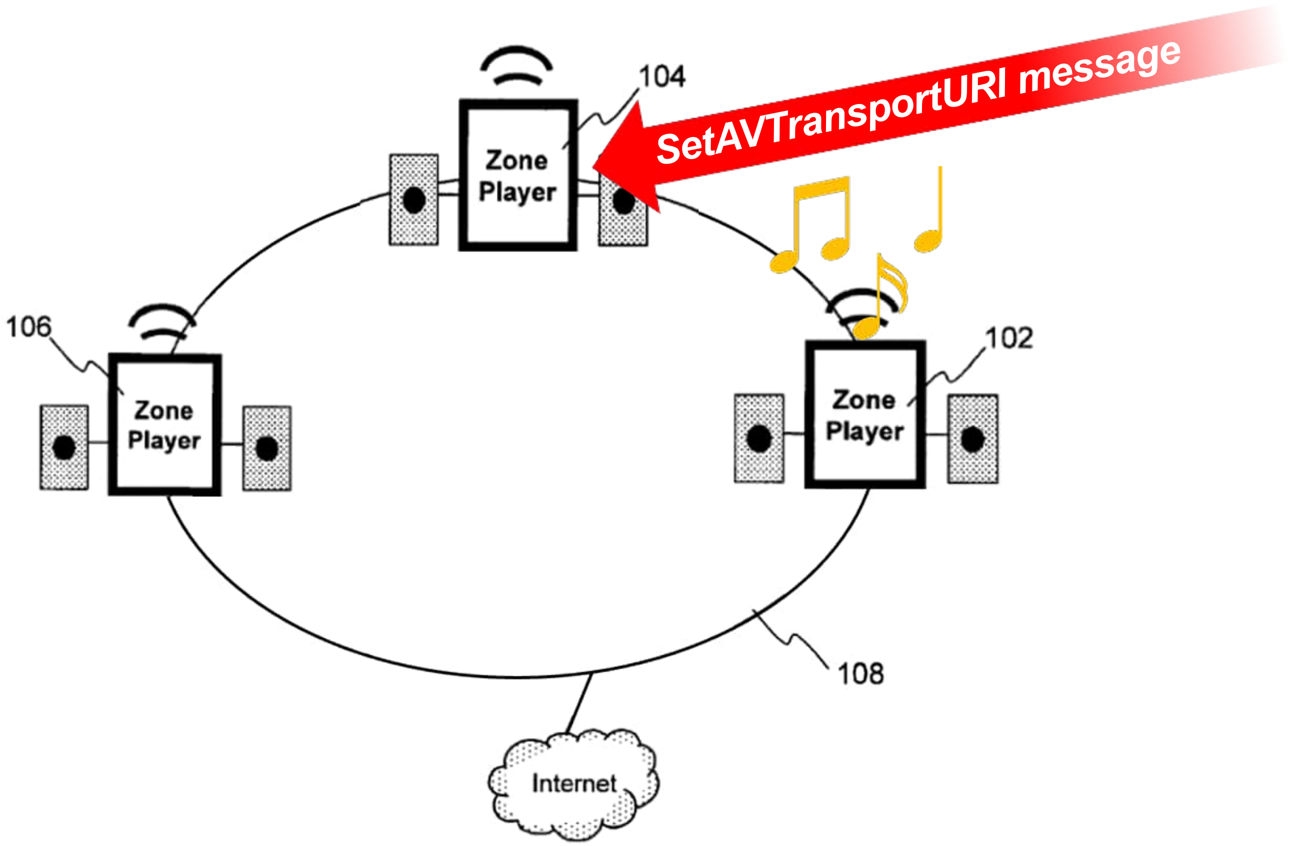
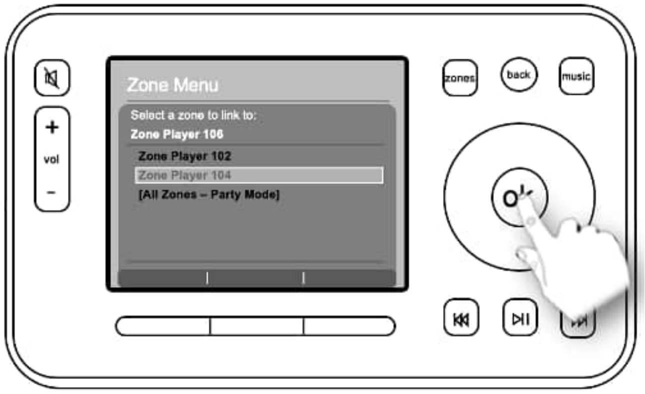

100
Audio source
112
104
Zone Player
SetAVTransportURI message
106
Zone Player
102
Zone Player
142
music
108
110
Internet
242
244
246
248
262
Rincon
zones
back
music
264
vol
Zone Player 104
+
Zone Player 106
ok
Scroll Wheel 250
252
266
268
254

FIG. 1

FIG. 2B

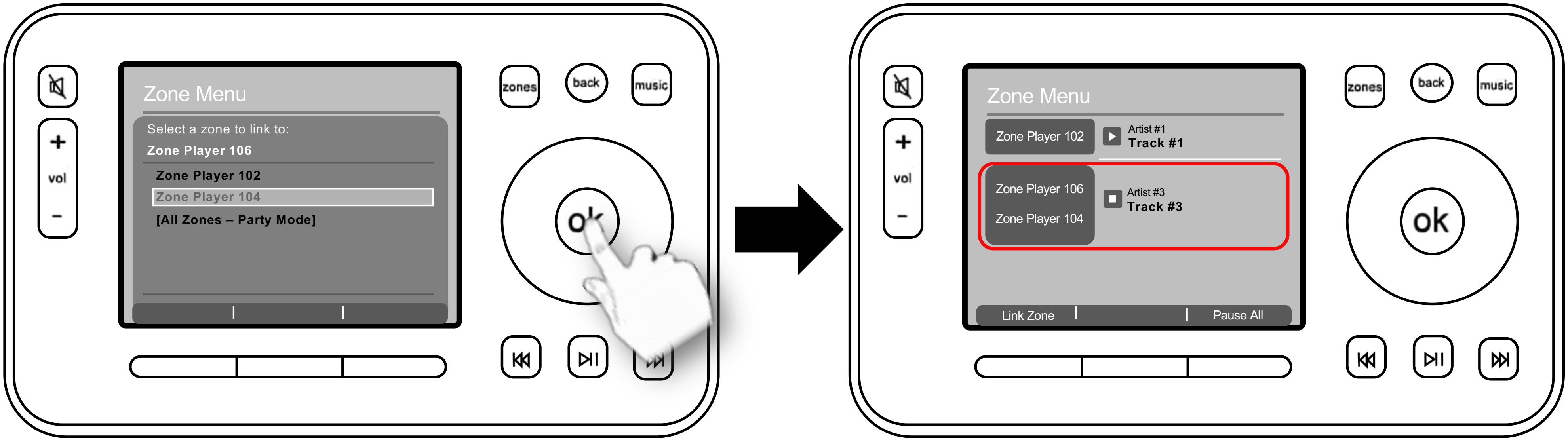
Sonos's Ad-Hoc Grouping – No Overlapping Groups


SetAVTransportURI message
104
Zone Player
106
Zone Player
102
Zone Player
108
Internet

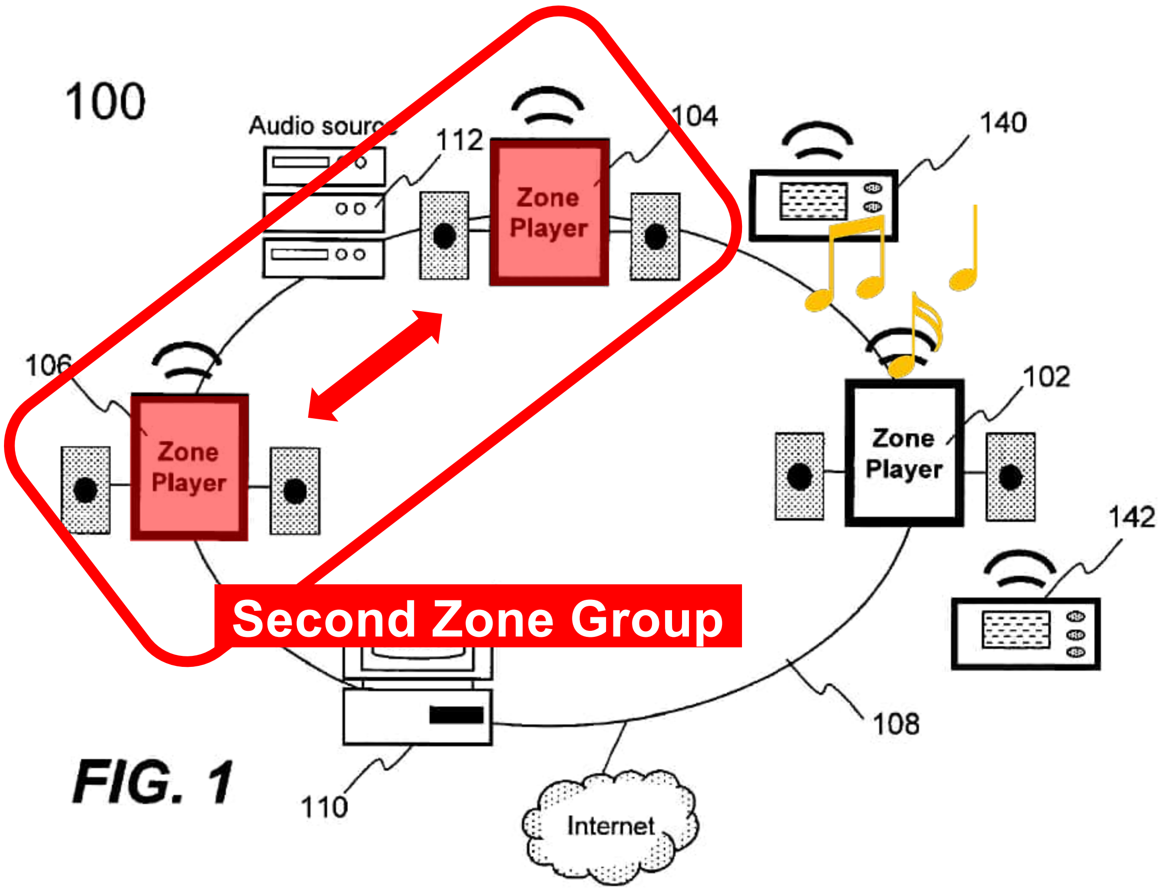

Zone Menu
Select a zone to link to:
Zone Player 106
Zone Player 102
Zone Player 104
[All Zones – Party Mode]
zones
back
music
+
vol
-
ok

Second Zone Group
Zone Player 106 + Zone Player 104

Sonos's Ad-Hoc Grouping – No Overlapping Groups

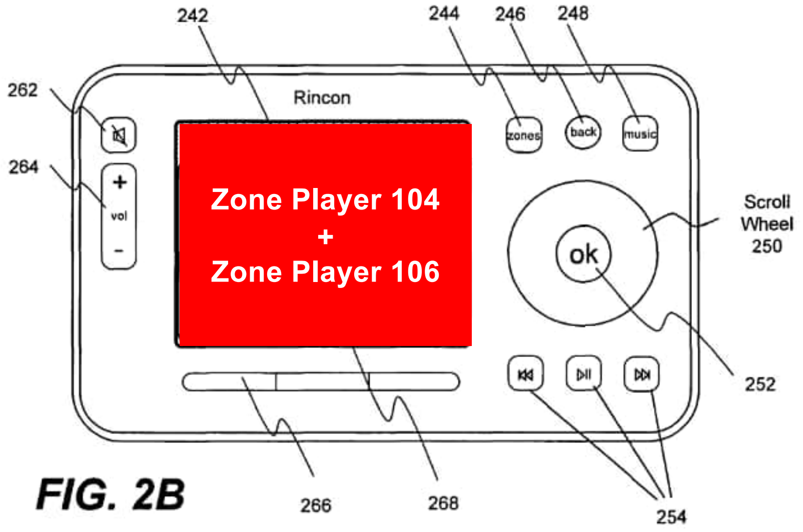

vol
zones
back
music
Zone Menu
Select a zone to link to:
Zone Player 106
Zone Player 102
Zone Player 104
[All Zones – Party Mode]
ok
vol
zones
back
music
Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 106
Zone Player 104
Artist #3
Track #3
Link Zone
Pause All
ok

Sonos's Ad-Hoc Grouping – No Overlapping Groups


100
Audio source
112
104
Zone Player
140
106
Zone Player
102
Zone Player
142
108
110
Internet

Second Zone Group

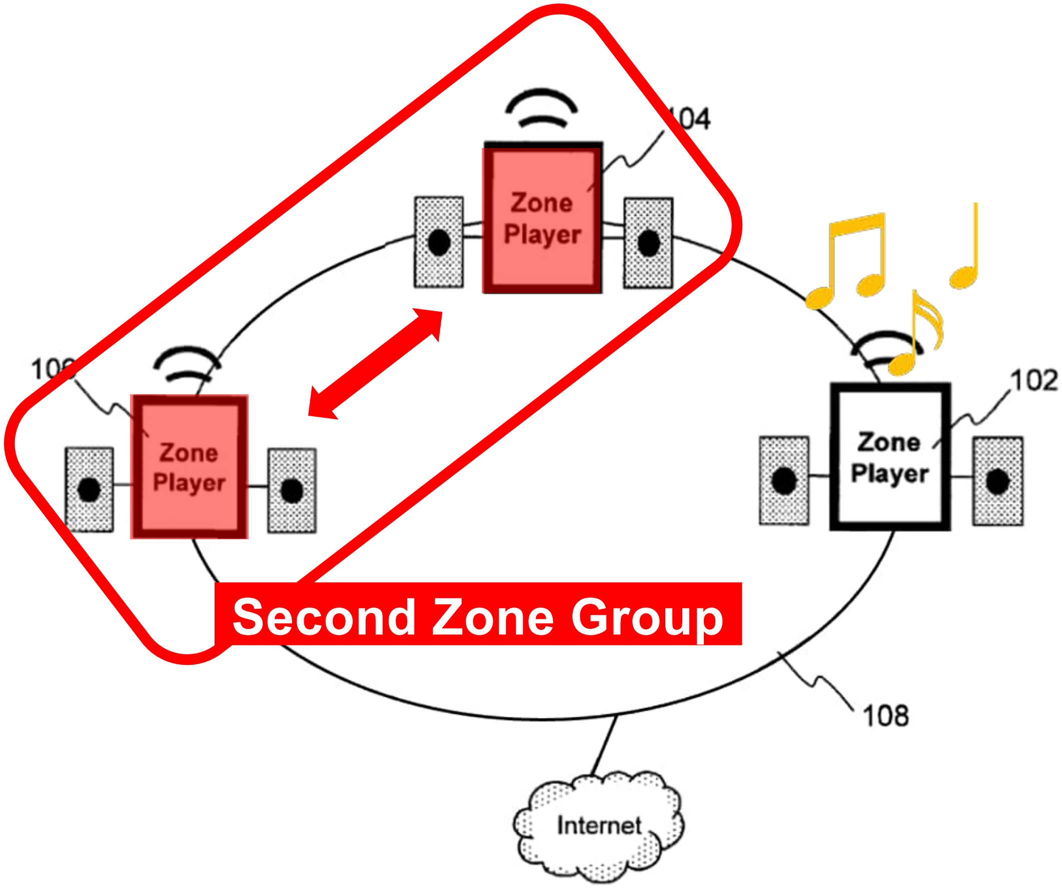
FIG. 1


242
244
246
248
262
Rincon
zones
back
music
264
+
vol
-
Scroll Wheel 250
ok
252
266
268
254

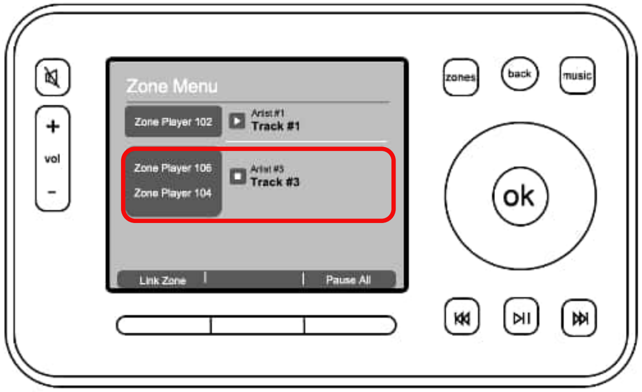
Zone Player 104
+
Zone Player 106

FIG. 2B

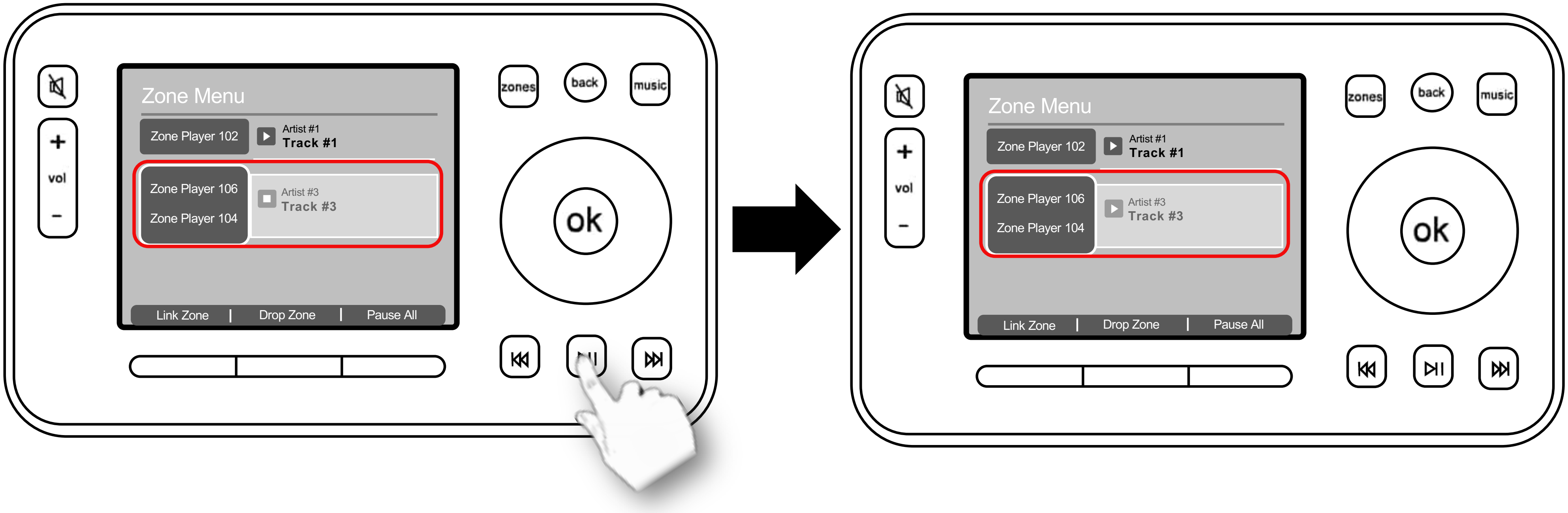
Sonos's Ad-Hoc Grouping – No Overlapping Groups


104
Zone Player
10
Zone Player
102
Zone Player
108
Internet

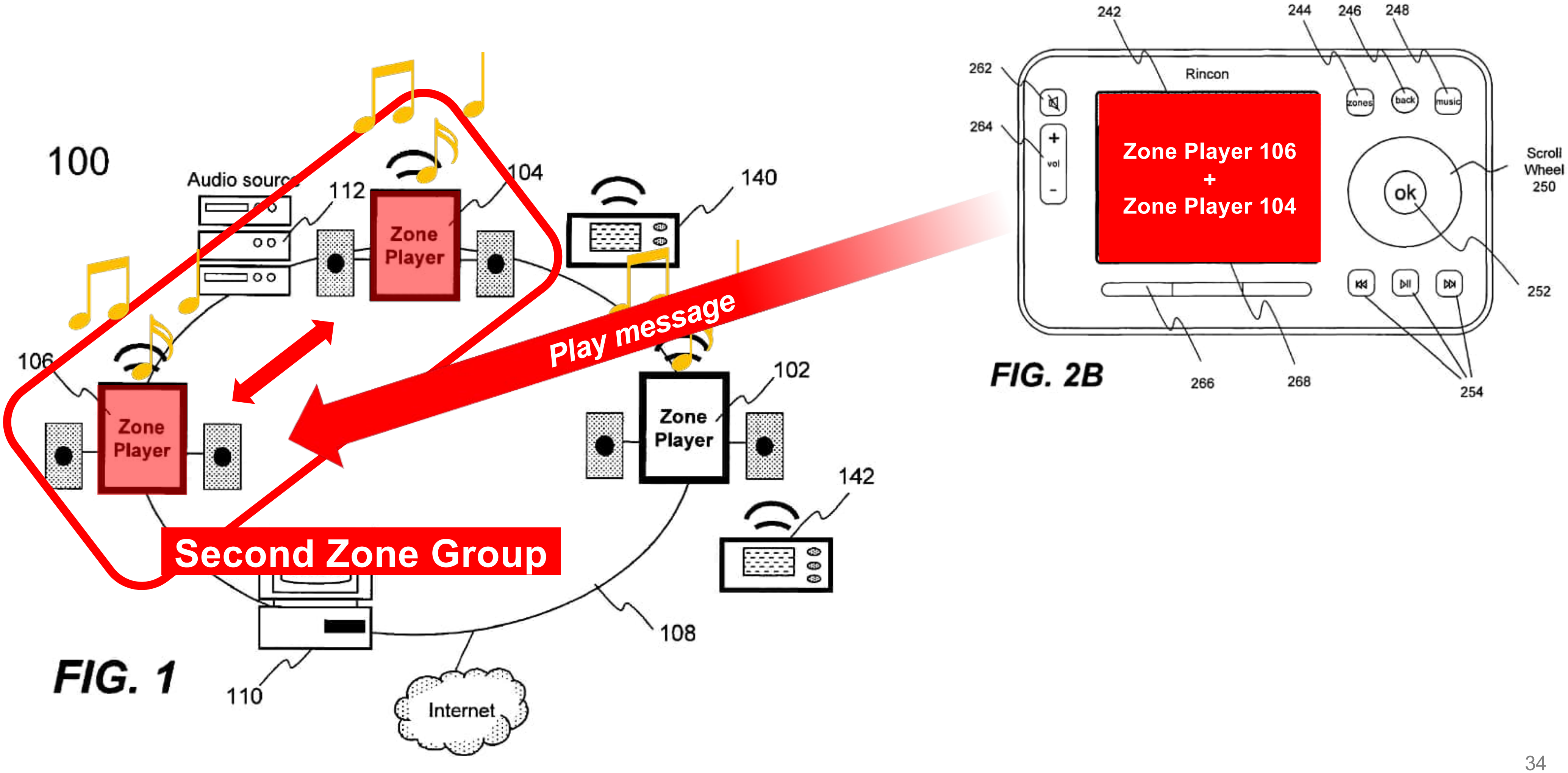
Second Zone Group


Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 106
Zone Player 104
Artist #3
Track #3
Link Zone
Pause All
vol
+
-
zones
back
music
ok

Sonos's Ad-Hoc Grouping – No Overlapping Groups


Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 106
Zone Player 104
Artist #3
Track #3
Link Zone
Drop Zone
Pause All
vol
zones
back
music
ok
Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 106
Zone Player 104
Artist #3
Track #3
Link Zone
Drop Zone
Pause All
vol
zones
back
music
ok

Sonos's Ad-Hoc Grouping – No Overlapping Groups


100
Audio source
112
104
140
106
Zone Player
Zone Player
Zone Player
102
142
108
110
Internet
242
244
246
248
262
264
Rincon
zones
back
music
vol
ok
Scroll Wheel 250
252
266
268
254

Play message

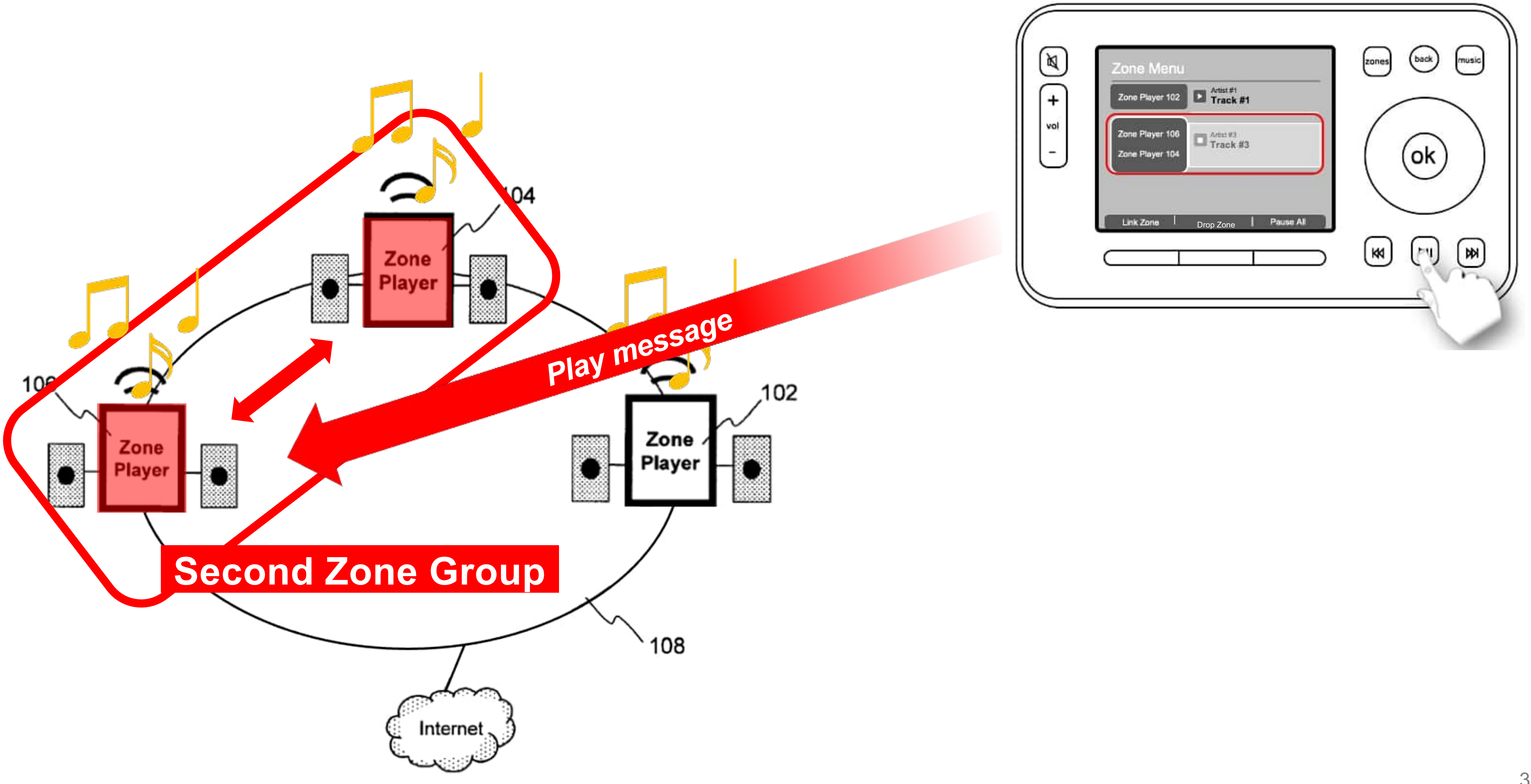
Second Zone Group

Zone Player 106
+
Zone Player 104

FIG. 1

FIG. 2B

Sonos's Ad-Hoc Grouping – No Overlapping Groups


Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 106
Zone Player 104
Artist #3
Track #3
Link Zone
Drop Zone
Pause All
zones
back
music
vol
+
-
ok
Zone Player
Zone Player
Zone Player
04
10
102
108
Internet
Play message
Second Zone Group

Sonos's Ad-Hoc Grouping – No Overlapping Groups

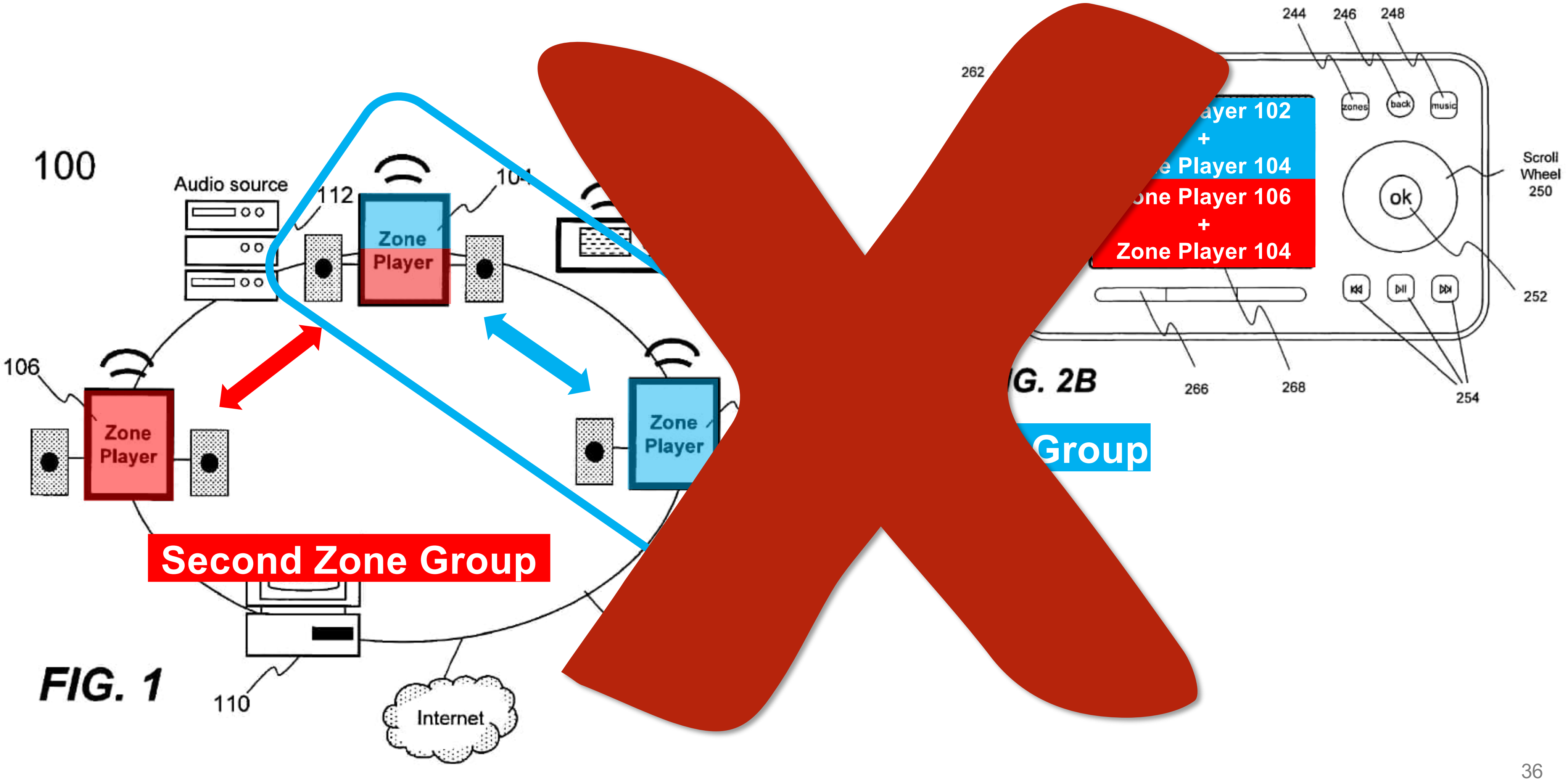

100
Audio source
112
10
106
Zone Player
Zone Player
Zone Player
110
Internet
262
244
246
248
zones
back
music
ayer 102
+
e Player 104
one Player 106
+
Zone Player 104
ok
Scroll Wheel 250
252
266
268
254

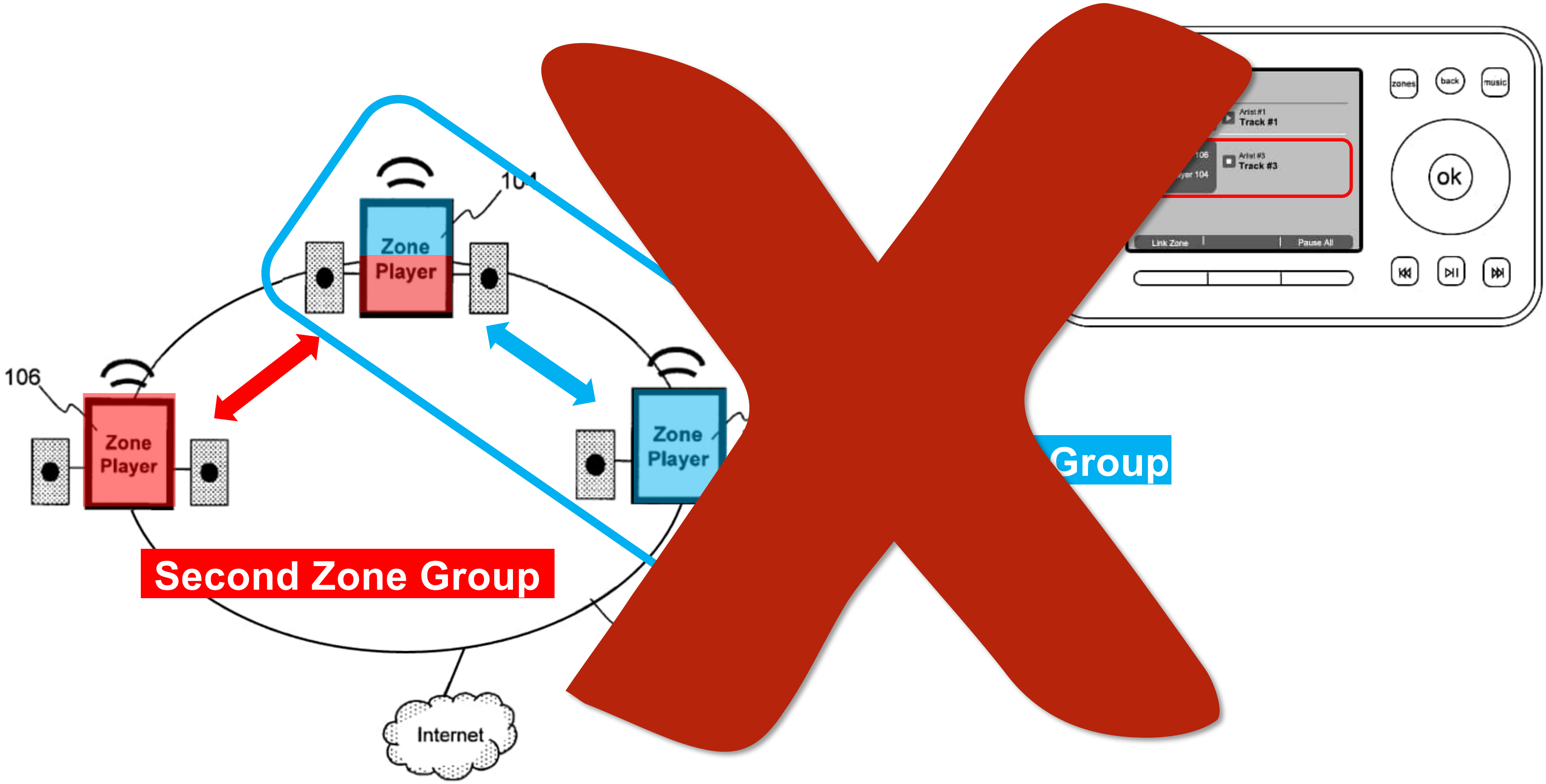
FIG. 1

G. 2B

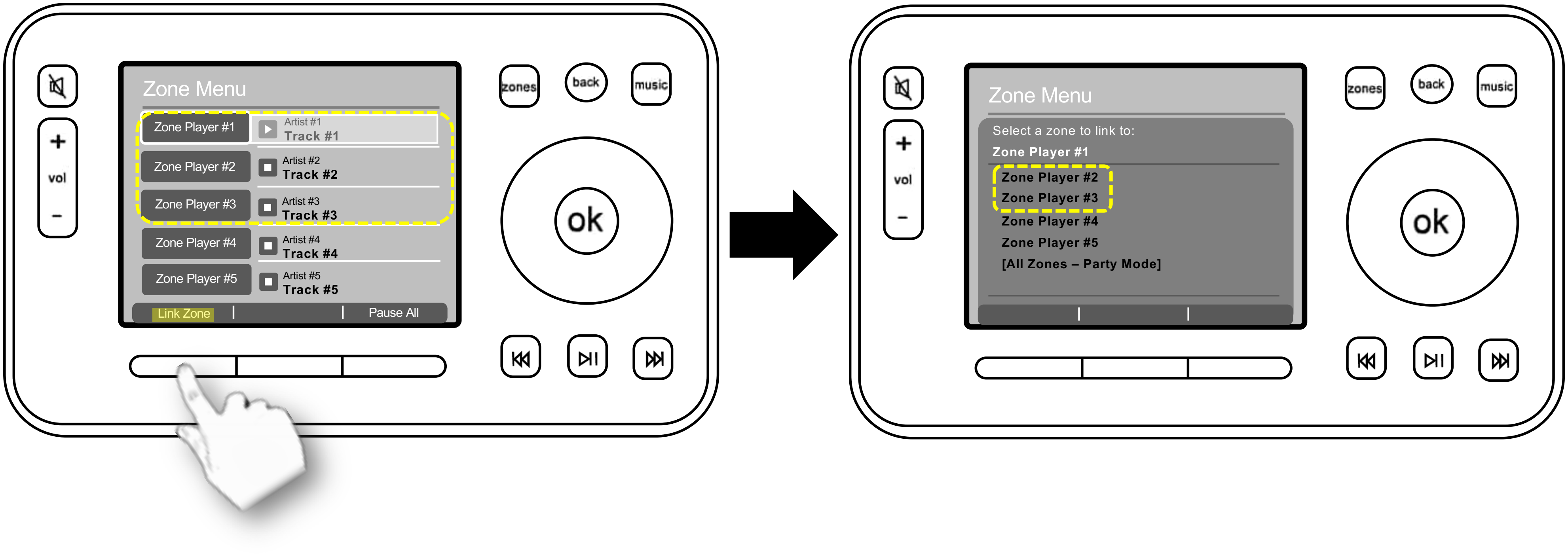
Second Zone Group

Group

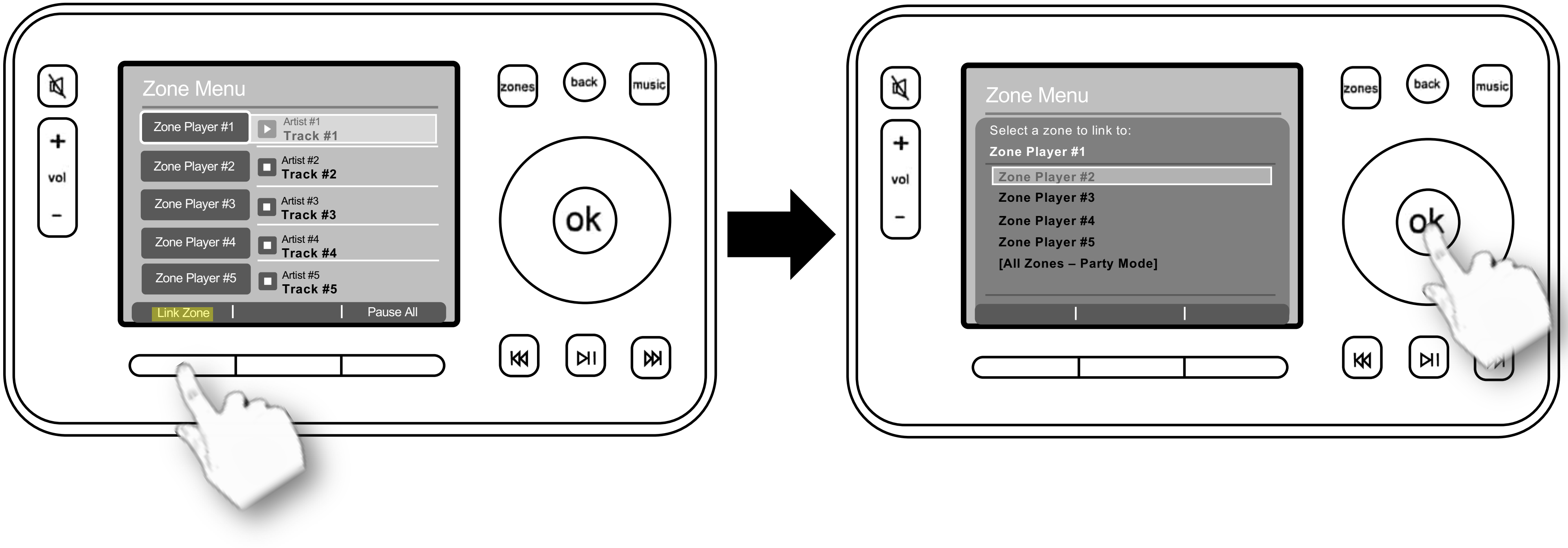
Sonos's Ad-Hoc Grouping – No Overlapping Groups


10
Zone
Player
106
Zone
Player
Zone
Player
Group
Second Zone Group
Internet
Artist #1
Track #1
106
yer 104
Artist #3
Track #3
Link Zone
Pause All
zones
back
music
ok

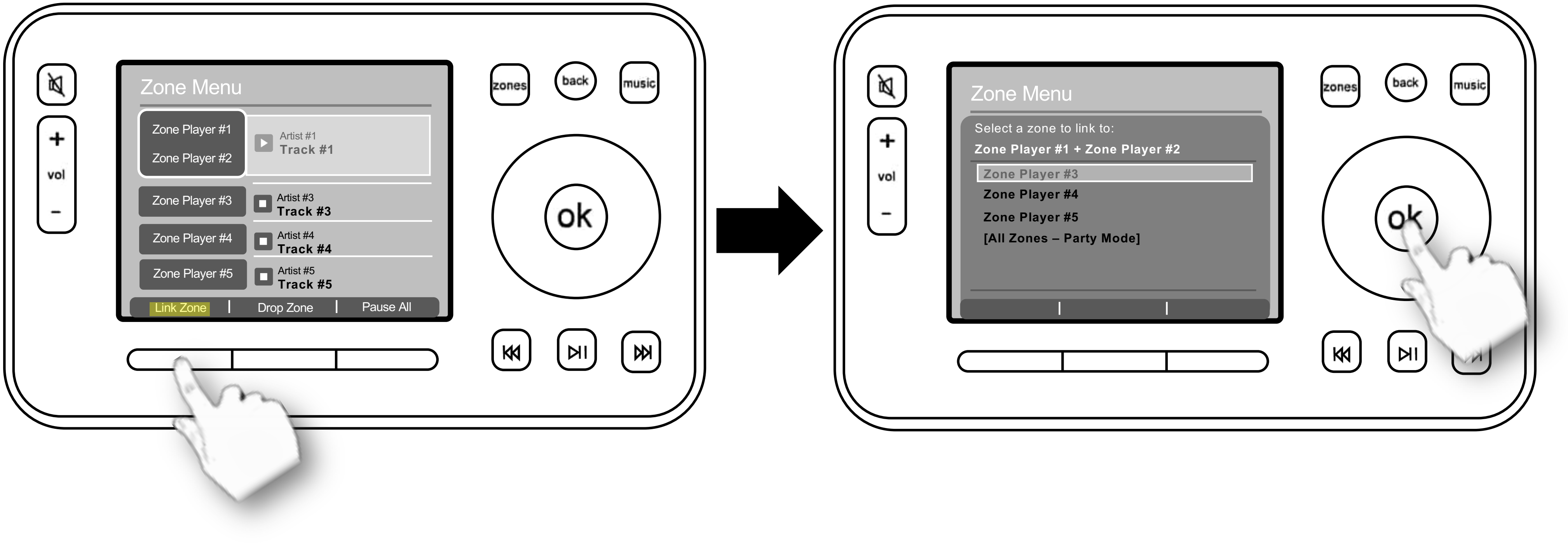
Sonos's Ad-Hoc Grouping – No Saving of Groups


zones
back
music
vol
+
–
ok
Zone Menu
Zone Player #1
Artist #1
Track #1
Zone Player #2
Artist #2
Track #2
Zone Player #3
Artist #3
Track #3
Zone Player #4
Artist #4
Track #4
Zone Player #5
Artist #5
Track #5
Link Zone
Pause All
zones
back
music
vol
+
–
ok
Zone Menu
Select a zone to link to:
Zone Player #1
Zone Player #2
Zone Player #3
Zone Player #4
Zone Player #5
[All Zones – Party Mode]

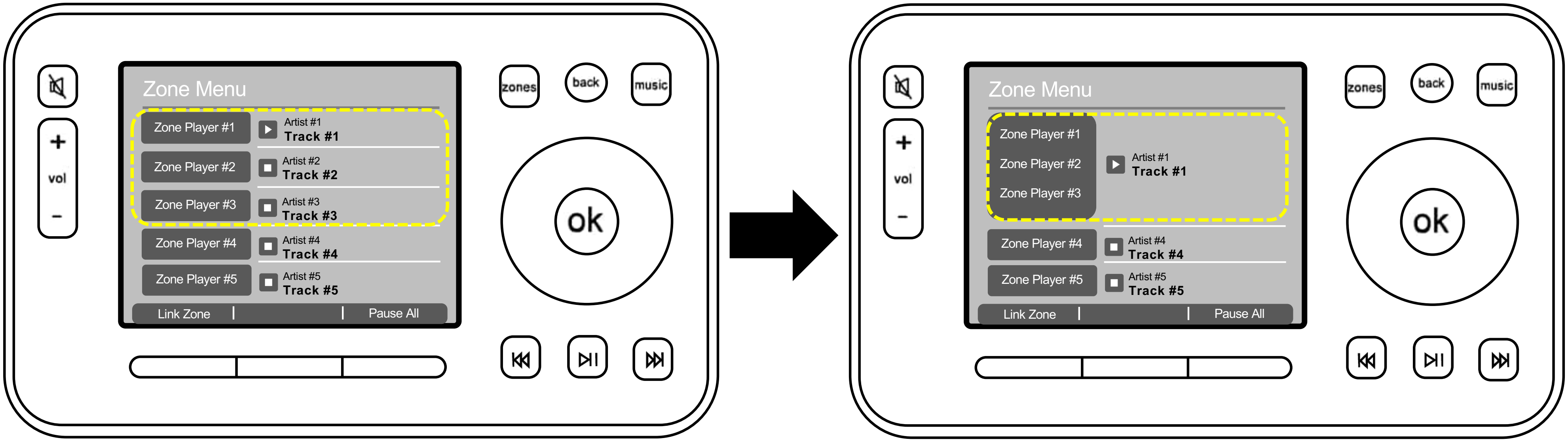
Sonos's Ad-Hoc Grouping – No Saving of Groups


Zone Menu
Zone Player #1
Artist #1
Track #1
Zone Player #2
Artist #2
Track #2
Zone Player #3
Artist #3
Track #3
Zone Player #4
Artist #4
Track #4
Zone Player #5
Artist #5
Track #5
Link Zone
Pause All
zones
back
music
ok
vol
+
–
Zone Menu
Select a zone to link to:
Zone Player #1
Zone Player #2
Zone Player #3
Zone Player #4
Zone Player #5
[All Zones – Party Mode]
zones
back
music
ok
vol
+
–

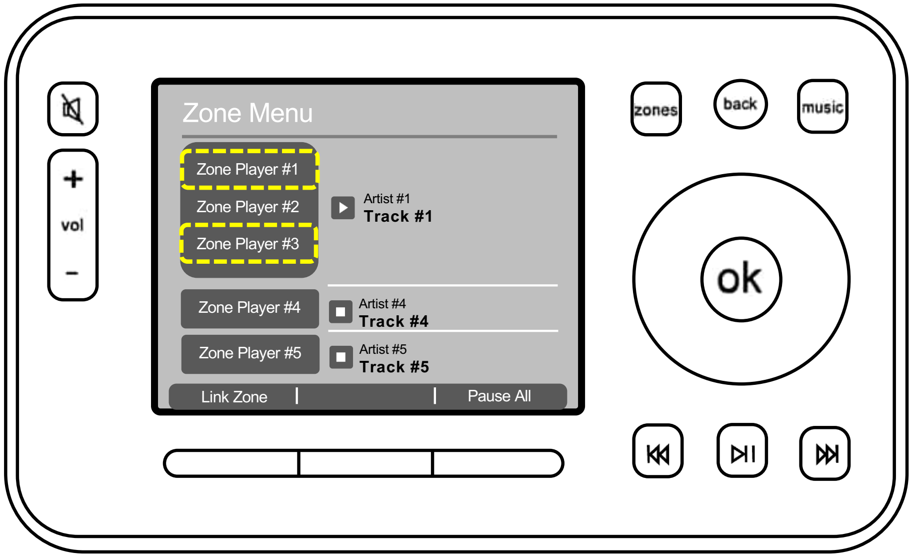
Sonos's Ad-Hoc Grouping – No Saving of Groups


Zone Menu
Zone Player #1
Zone Player #2
Artist #1
Track #1
Zone Player #3
Artist #3
Track #3
Zone Player #4
Artist #4
Track #4
Zone Player #5
Artist #5
Track #5
Link Zone
Drop Zone
Pause All
zones
back
music
ok
vol
Zone Menu
Select a zone to link to:
Zone Player #1 + Zone Player #2
Zone Player #3
Zone Player #4
Zone Player #5
[All Zones – Party Mode]
zones
back
music
ok
vol

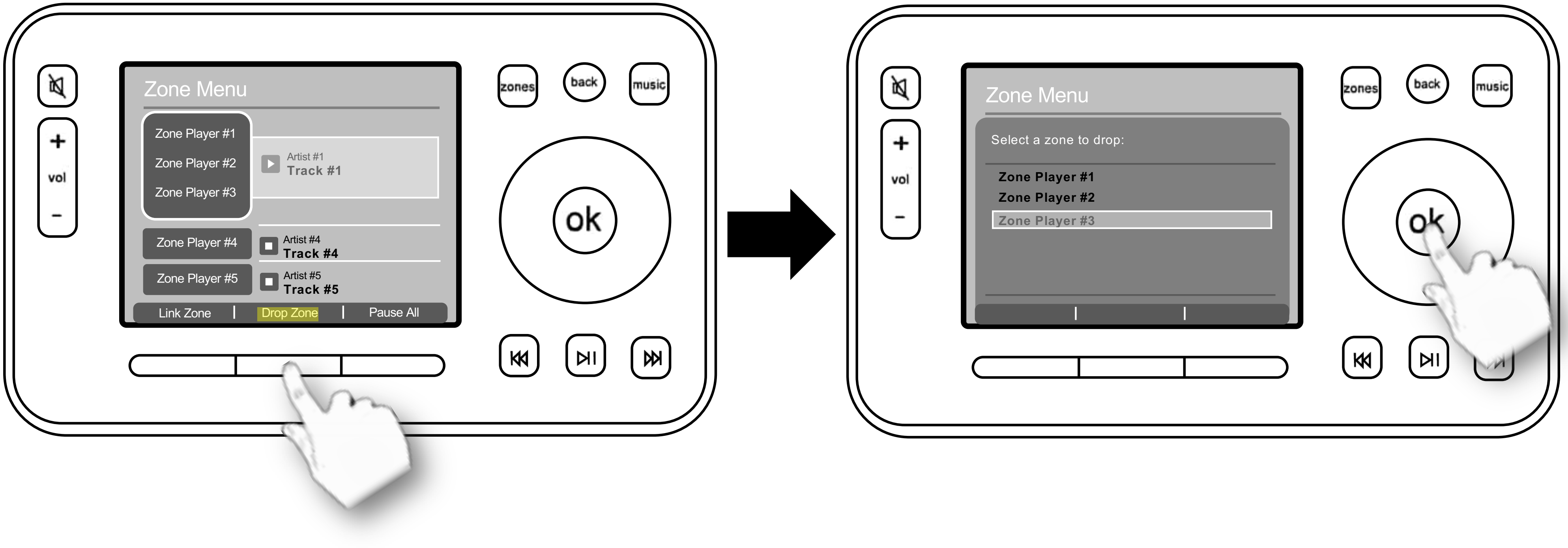
Sonos's Ad-Hoc Grouping – No Saving of Groups


Zone Menu
Zone Player #1
Artist #1
Track #1
Zone Player #2
Artist #2
Track #2
Zone Player #3
Artist #3
Track #3
Zone Player #4
Artist #4
Track #4
Zone Player #5
Artist #5
Track #5
Link Zone
Pause All
vol
zones
back
music
ok
Zone Menu
Zone Player #1
Zone Player #2
Zone Player #3
Artist #1
Track #1
Zone Player #4
Artist #4
Track #4
Zone Player #5
Artist #5
Track #5
Link Zone
Pause All
vol
zones
back
music
ok

Sonos's Ad-Hoc Grouping – No Saving of Groups


Zone Menu
Zone Player #1
Zone Player #2
Zone Player #3
Artist #1
Track #1
Zone Player #4
Artist #4
Track #4
Zone Player #5
Artist #5
Track #5
Link Zone
Pause All
vol
+
–
zones
back
music
ok

Sonos's Ad-Hoc Grouping – No Saving of Groups


Zone Menu
Zone Player #1
Zone Player #2
Zone Player #3
Artist #1
Track #1
Zone Player #4
Artist #4
Track #4
Zone Player #5
Artist #5
Track #5
Link Zone
Drop Zone
Pause All
vol
zones
back
music
ok
Zone Menu
Select a zone to drop:
Zone Player #1
Zone Player #2
Zone Player #3
vol
zones
back
music
ok

Sonos's Ad-Hoc Grouping – No Saving of Groups

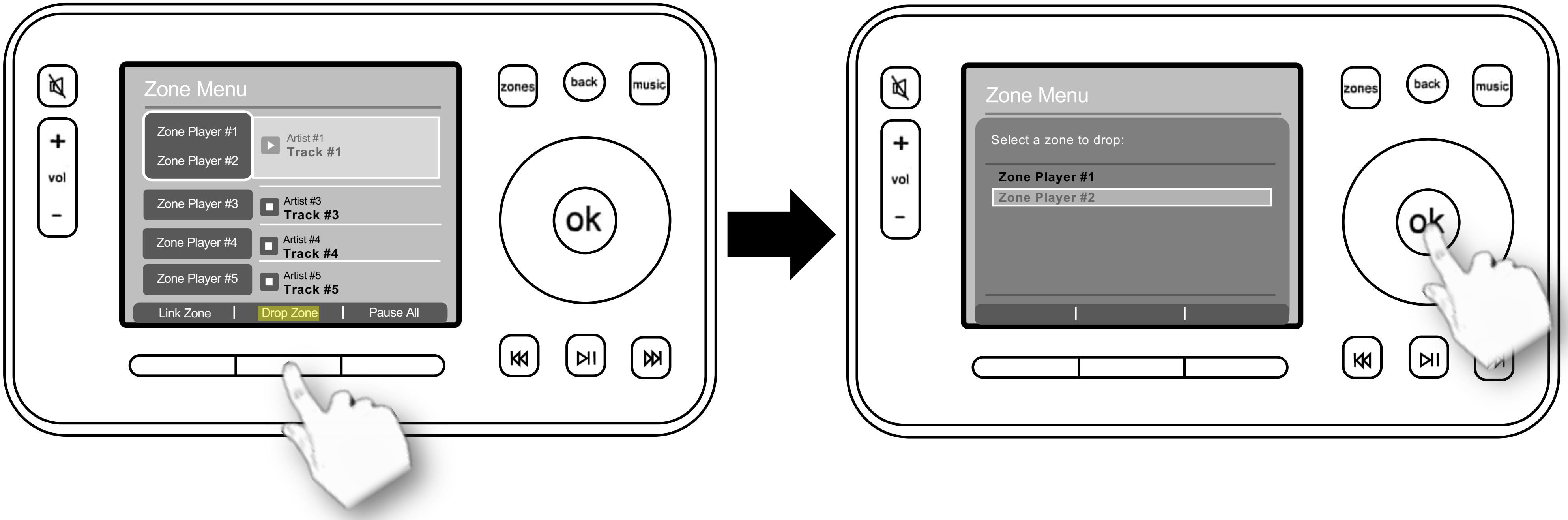
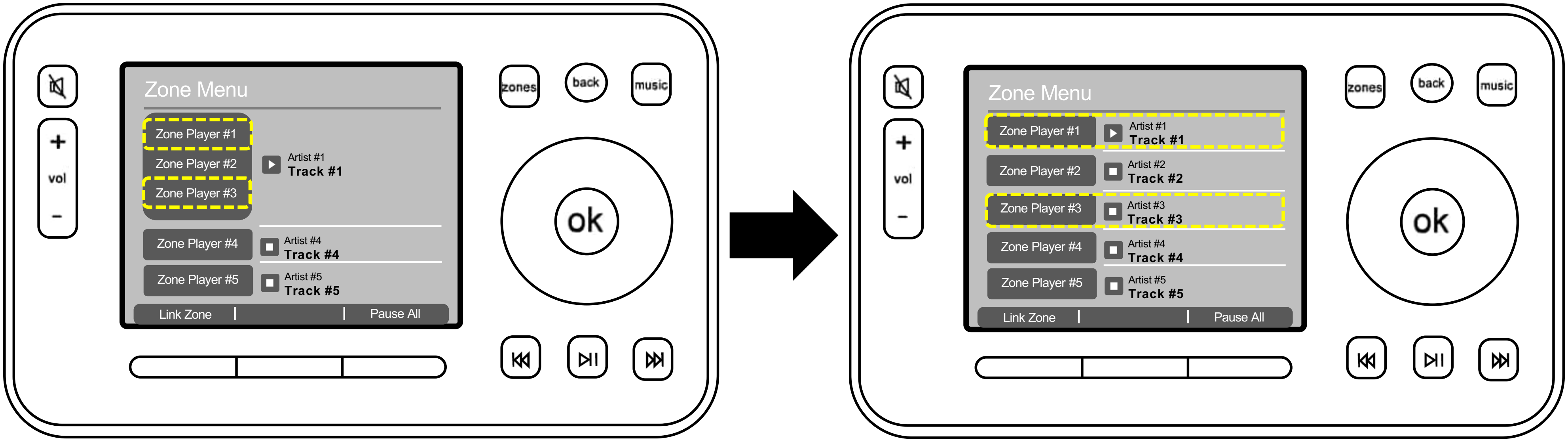

Zone Menu
Zone Player #1
Zone Player #2
Artist #1
Track #1
Zone Player #3
Artist #3
Track #3
Zone Player #4
Artist #4
Track #4
Zone Player #5
Artist #5
Track #5
Link Zone
Drop Zone
Pause All
vol
zones
back
music
ok
Zone Menu
Select a zone to drop:
Zone Player #1
Zone Player #2
vol
zones
back
music
ok

EXHIBIT A - FILED UNDER SEAL

Sonos's Ad-Hoc Grouping – No Saving of Groups


vol
Zone Menu
Zone Player #1
Zone Player #2
Zone Player #3
Artist #1
Track #1
Zone Player #4
Artist #4
Track #4
Zone Player #5
Artist #5
Track #5
Link Zone
Pause All
zones
back
music
ok
vol
Zone Menu
Zone Player #1
Artist #1
Track #1
Zone Player #2
Artist #2
Track #2
Zone Player #3
Artist #3
Track #3
Zone Player #4
Artist #4
Track #4
Zone Player #5
Artist #5
Track #5
Link Zone
Pause All
zones
back
music
ok

Sonos's Ad-Hoc Grouping – No Saving of Groups

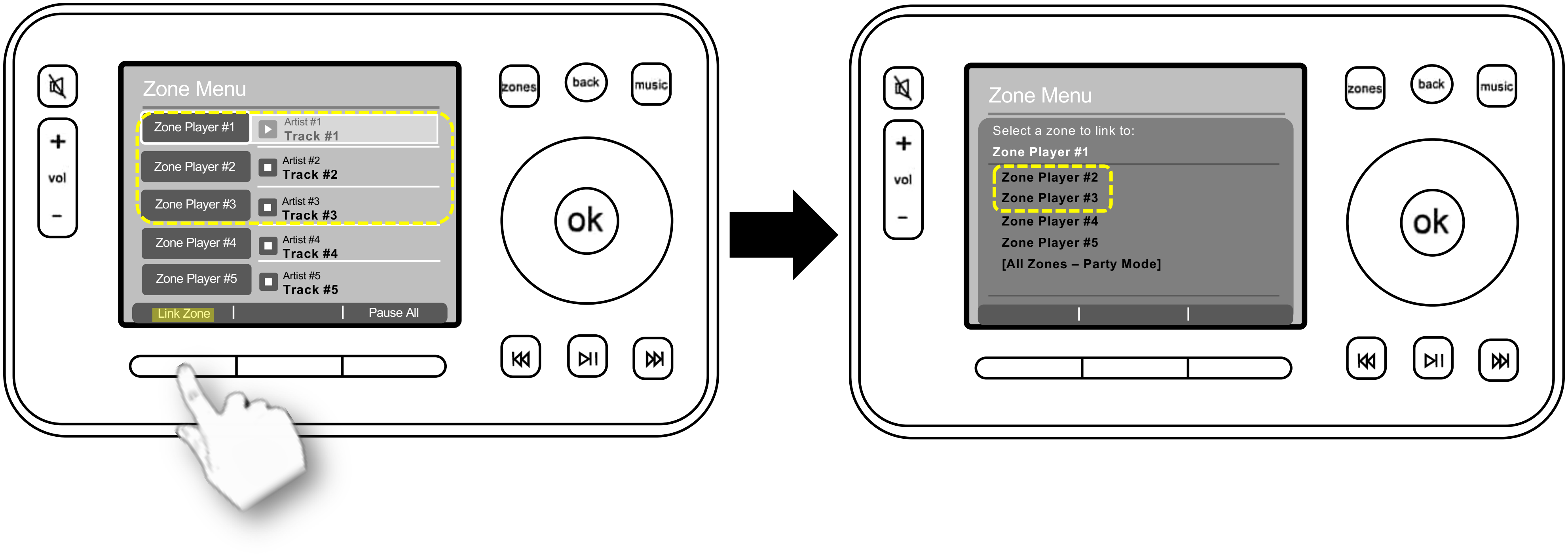
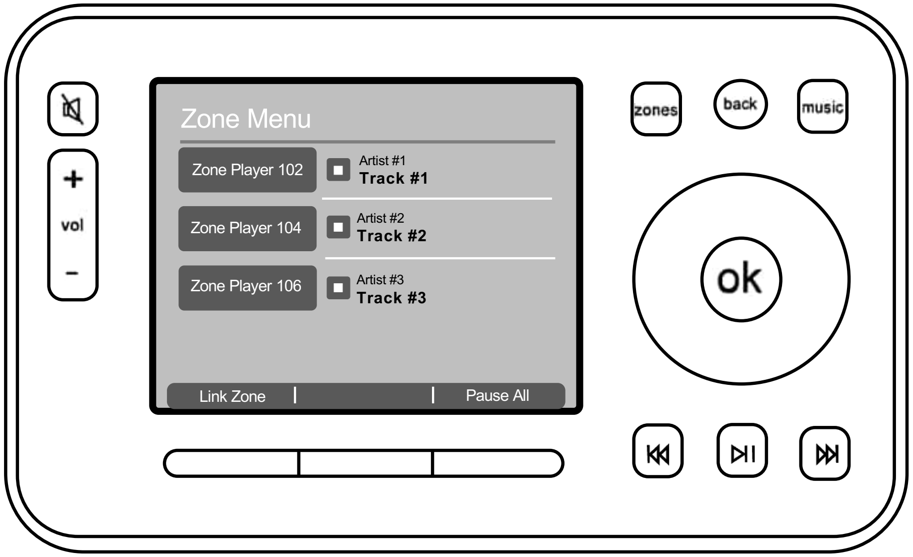
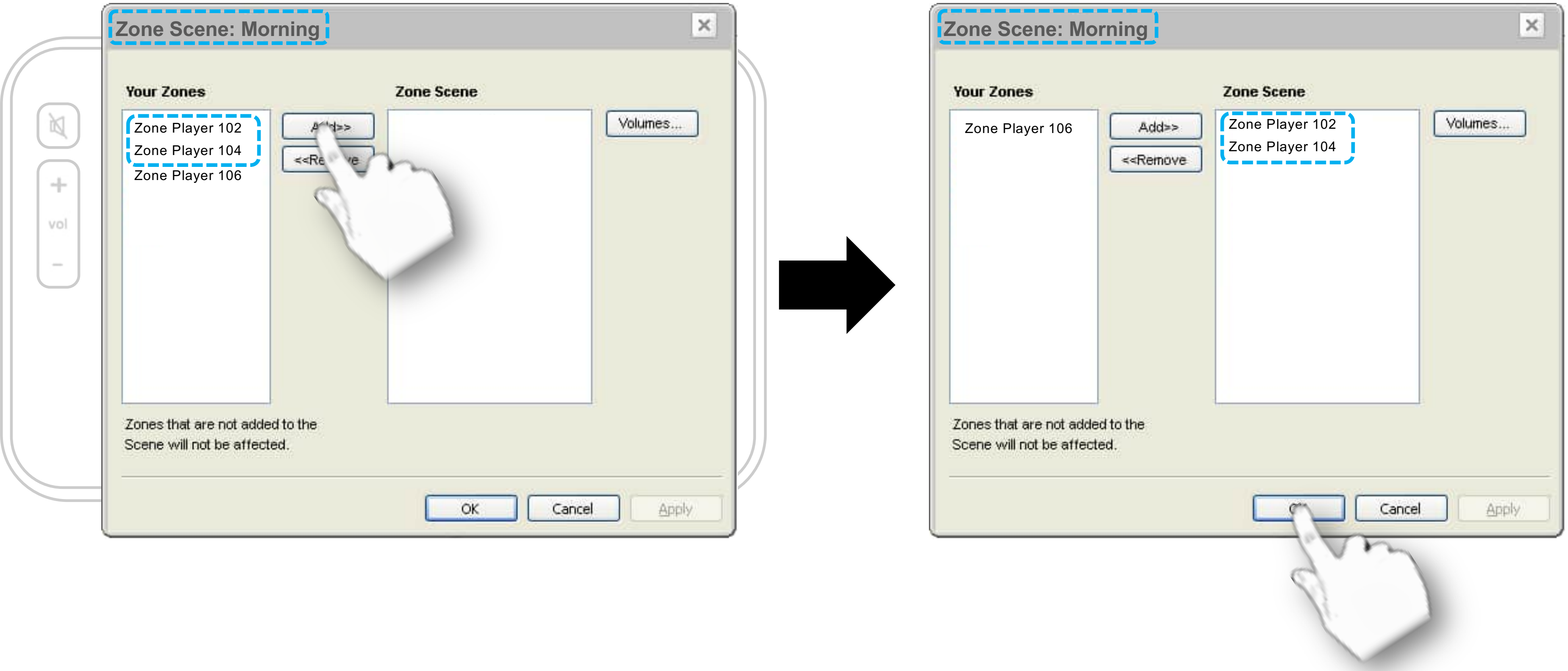

Zone Menu
Zone Player #1
Artist #1
Track #1
Zone Player #2
Artist #2
Track #2
Zone Player #3
Artist #3
Track #3
Zone Player #4
Artist #4
Track #4
Zone Player #5
Artist #5
Track #5
Link Zone
Pause All
zones
back
music
ok
vol
+
–
Zone Menu
Select a zone to link to:
Zone Player #1
Zone Player #2
Zone Player #3
Zone Player #4
Zone Player #5
[All Zones – Party Mode]
zones
back
music
ok
vol
+
–

EXHIBIT A - FILED UNDER SEAL

Sonos's "Zone Scene" Grouping – Presaved Groups for Future Use


Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Link Zone
Pause All
vol
zones
back
music
ok

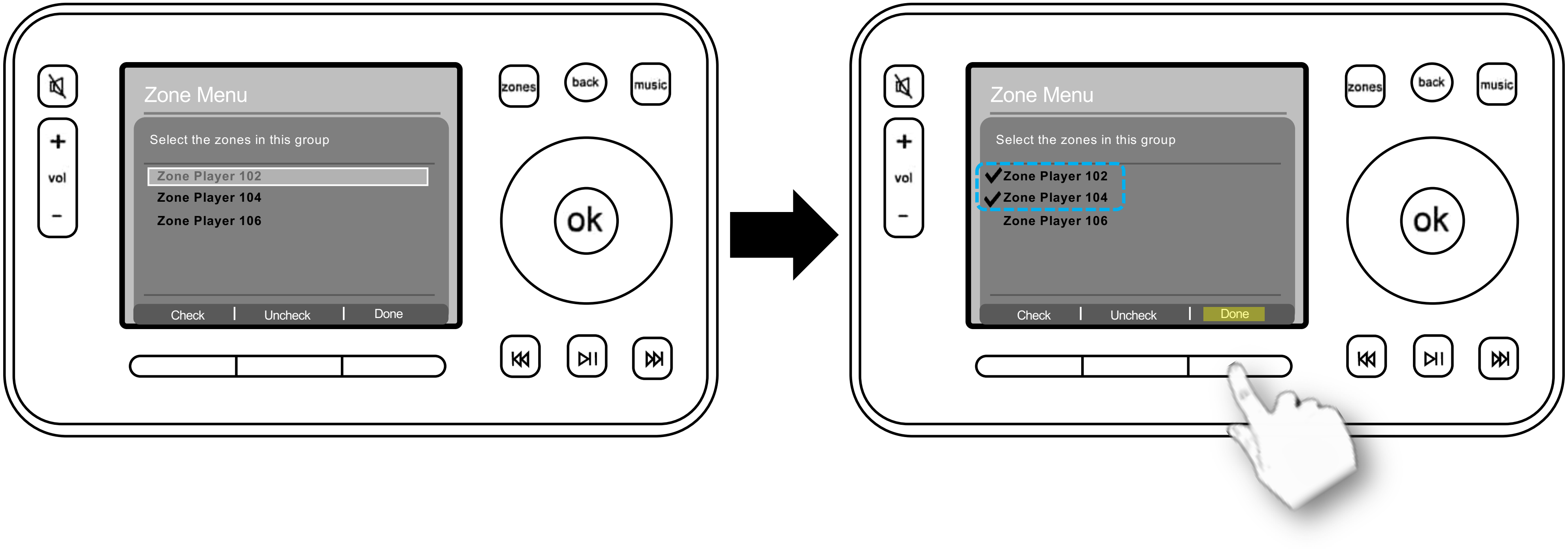
Sonos's "Zone Scene" Grouping – Presaved Groups for Future Use


Zone Scene: Morning
Your Zones
Zone Scene
Zone Player 102
Zone Player 104
Zone Player 106
Add>>
<<Remove
Volumes...
OK
Cancel
Apply
vol
Zone Scene: Morning
Your Zones
Zone Scene
Zone Player 106
Zone Player 102
Zone Player 104
Add>>
<<Remove
Volumes...
OK
Cancel
Apply

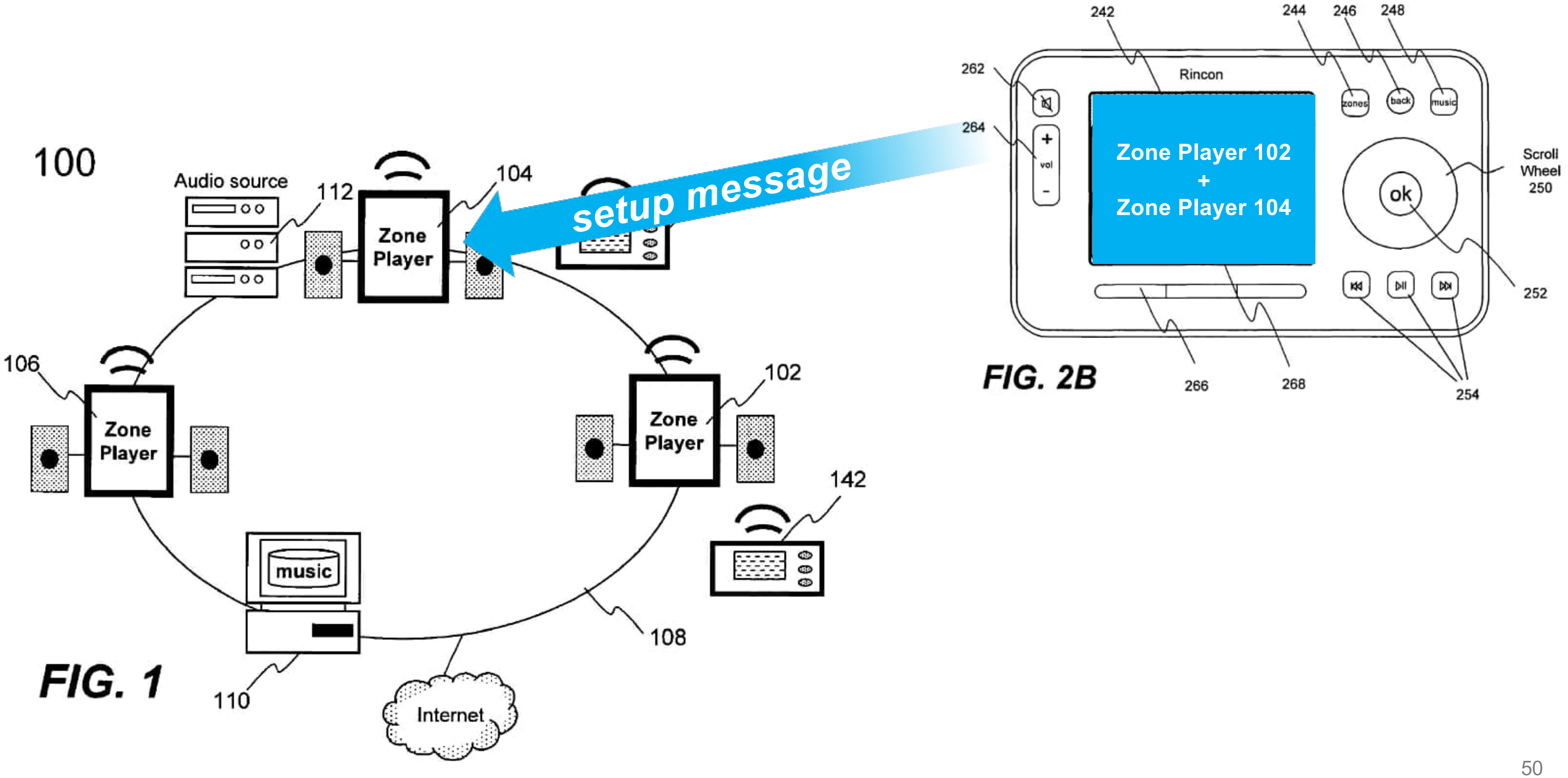
Zones that are not added to the Scene will not be affected.

Zones that are not added to the Scene will not be affected.

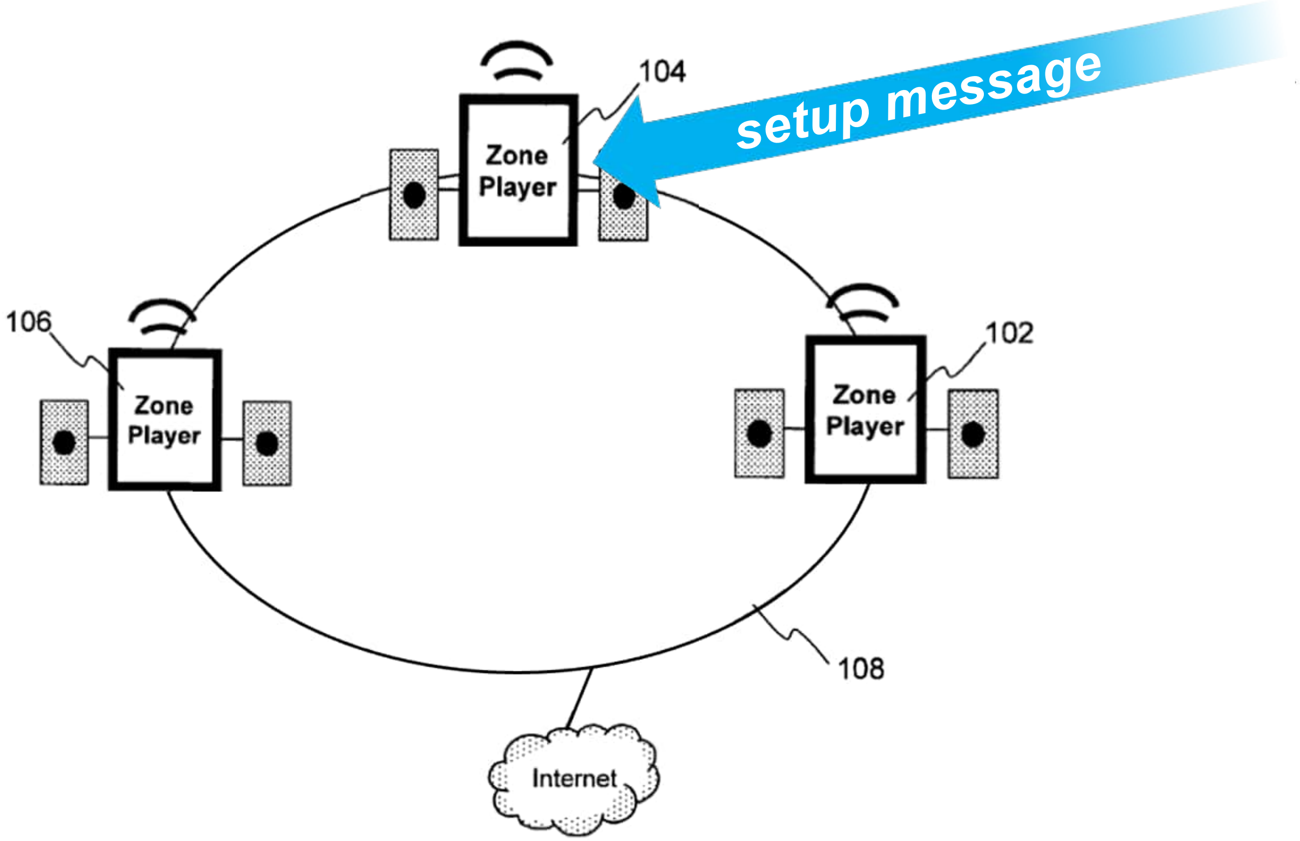
Sonos's "Zone Scene" Grouping – Presaved Groups for Future Use

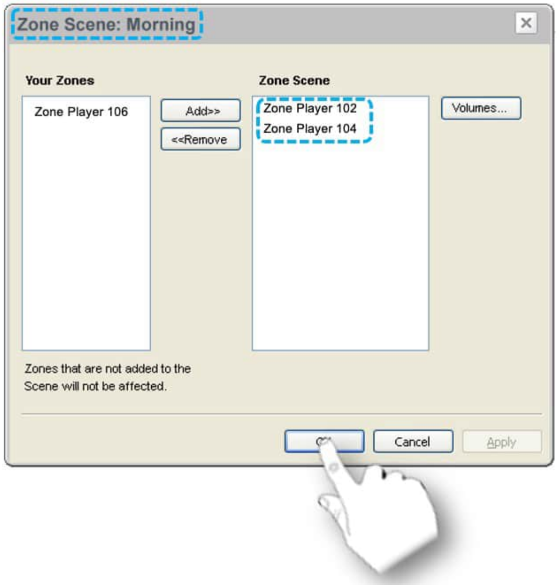

Zone Menu
Select the zones in this group
Zone Player 102
Zone Player 104
Zone Player 106
Check
Uncheck
Done
zones
back
music
vol
ok
Zone Menu
Select the zones in this group
✓ Zone Player 102
✓ Zone Player 104
Zone Player 106
Check
Uncheck
Done
zones
back
music
vol
ok

Sonos's "Zone Scene" Grouping – Presaved Groups for Future Use


100
Audio source
112
104
Zone Player
setup message
106
Zone Player
102
Zone Player
142
music
108
110
Internet
FIG. 1
242
244
246
248
262
Rincon
zones
back
music
264
vol
Zone Player 102
+
Zone Player 104
ok
Scroll Wheel 250
252
FIG. 2B
266
268
254

Sonos's "Zone Scene" Grouping – Presaved Groups for Future Use


setup message
104
Zone Player
106
Zone Player
102
Zone Player
108
Internet



Zone Scene: Morning

Your Zones

Zone Player 106

Zone Scene

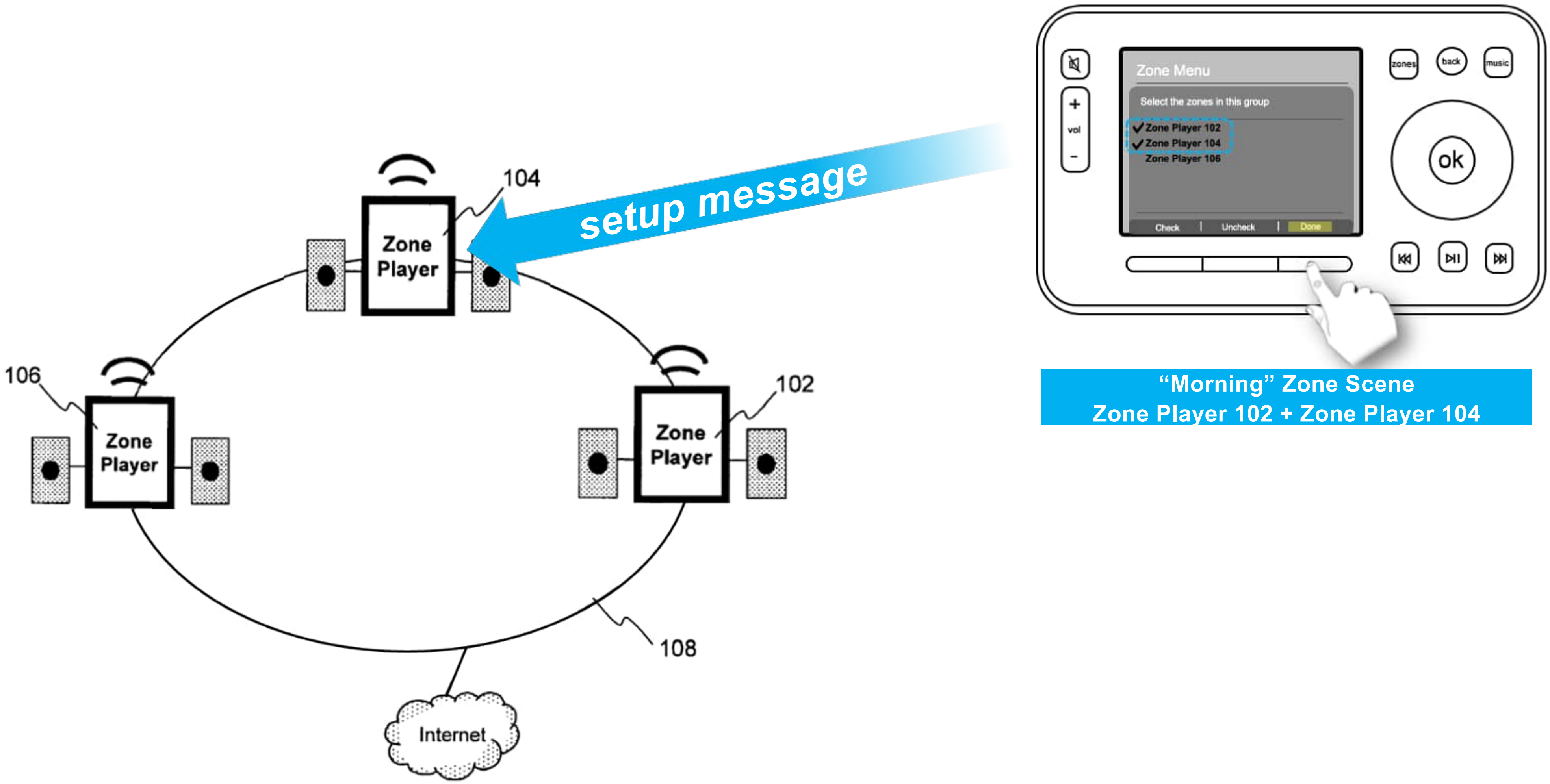
Zone Player 102
Zone Player 104

Zones that are not added to the Scene will not be affected.

Add>>
<<Remove
Volumes...
OK
Cancel
Apply

"Morning" Zone Scene
Zone Player 102 + Zone Player 104

Sonos's "Zone Scene" Grouping – Presaved Groups for Future Use


setup message
104
Zone Player
106
Zone Player
102
Zone Player
108
Internet
Zone Menu
Select the zones in this group
✓Zone Player 102
✓Zone Player 104
Zone Player 106
Check
Uncheck
Done
zones
back
music
+
vol
-
ok

"Morning" Zone Scene
Zone Player 102 + Zone Player 104

Sonos's "Zone Scene" Grouping – Presaved Groups for Future Use

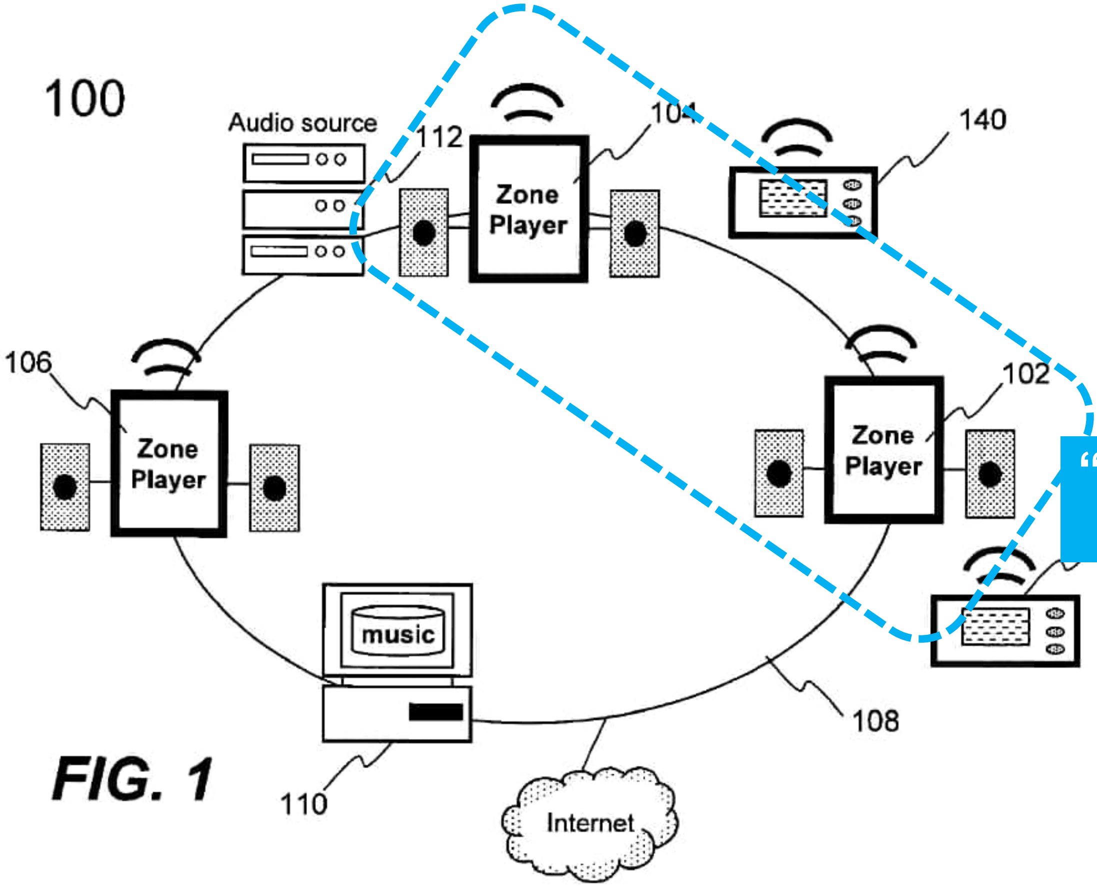
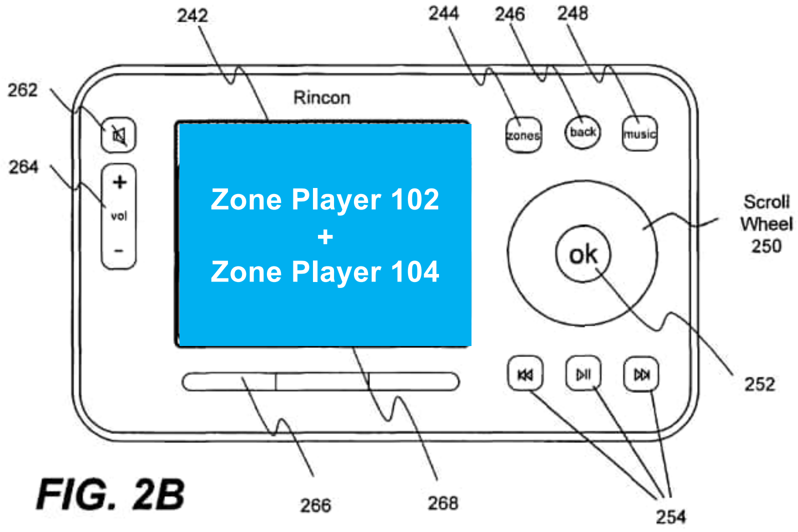

100
Audio source
112
Zone Player
104
140
106
Zone Player
102
Zone Player
music
108
110
Internet

FIG. 1


242
244
246
248
262
264
Rincon
zones
back
music
vol
ok
Scroll Wheel 250
252
266
268
254

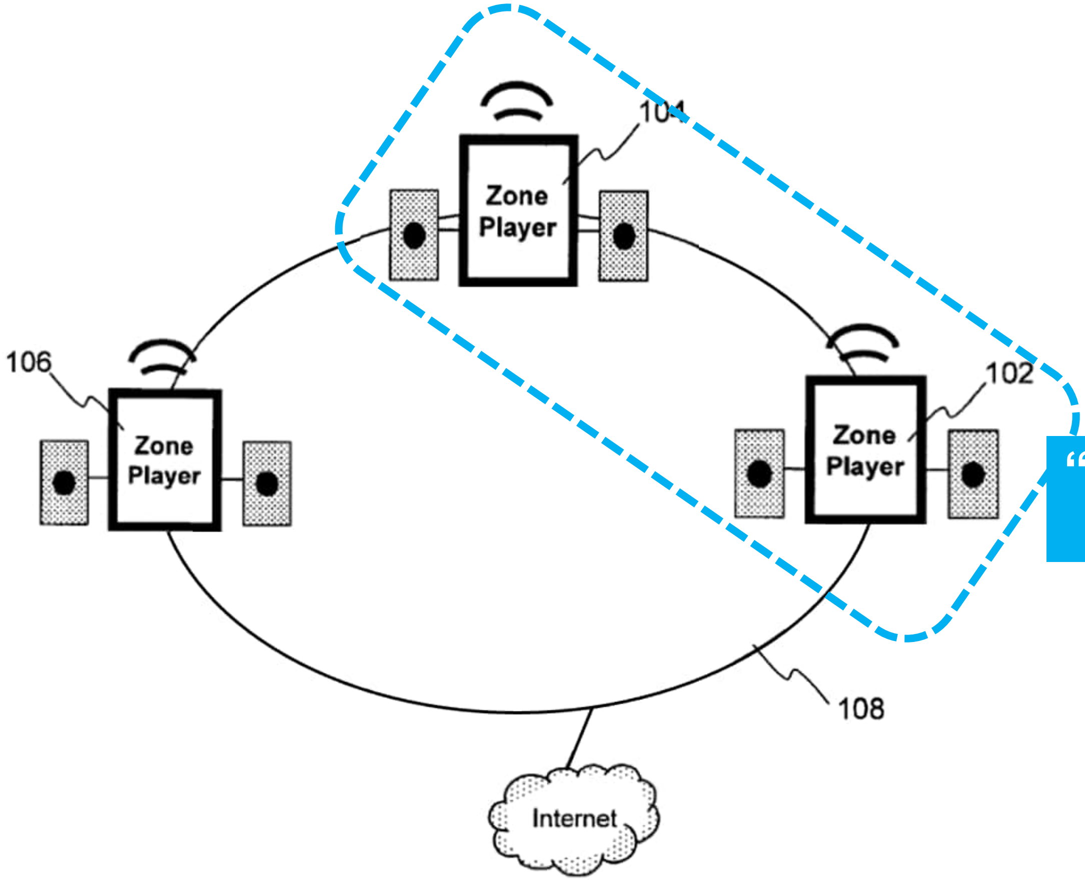
Zone Player 102
+
Zone Player 104

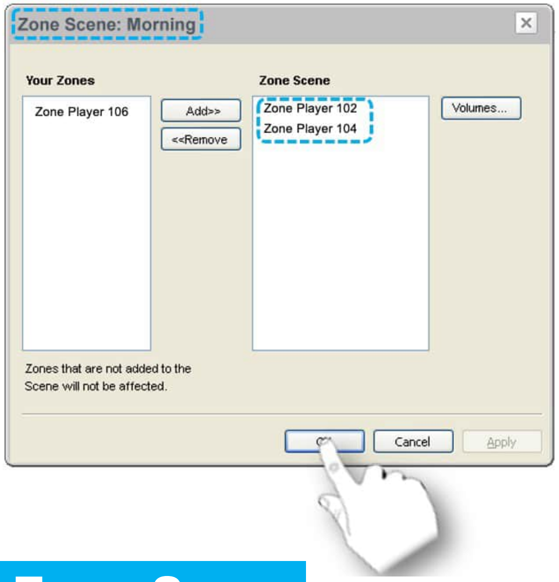
FIG. 2B

"Morning" Zone Scene (Uninvoked)

EXHIBIT A - FILED UNDER SEAL

Sonos's "Zone Scene" Grouping – Presaved Groups for Future Use


104
Zone Player
106
Zone Player
102
Zone Player
108
Internet


Zone Scene: Morning

Your Zones
Zone Scene
Add>>
<<Remove
Volumes...
OK
Cancel
Apply

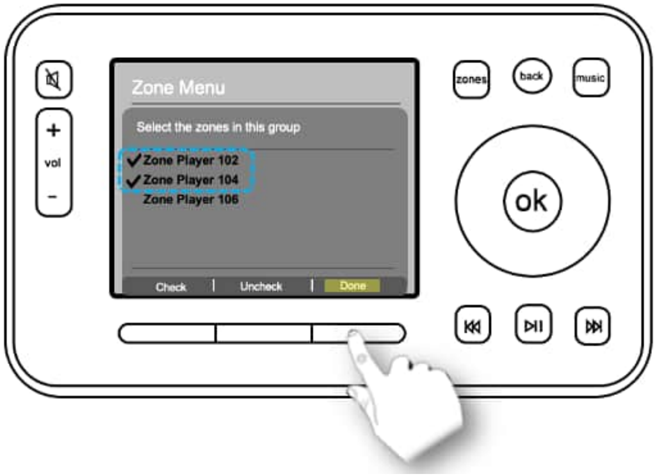
Your Zones: Zone Player 106

Zone Scene: Zone Player 102, Zone Player 104

Zones that are not added to the Scene will not be affected.

"Morning" Zone Scene (Uninvoked)

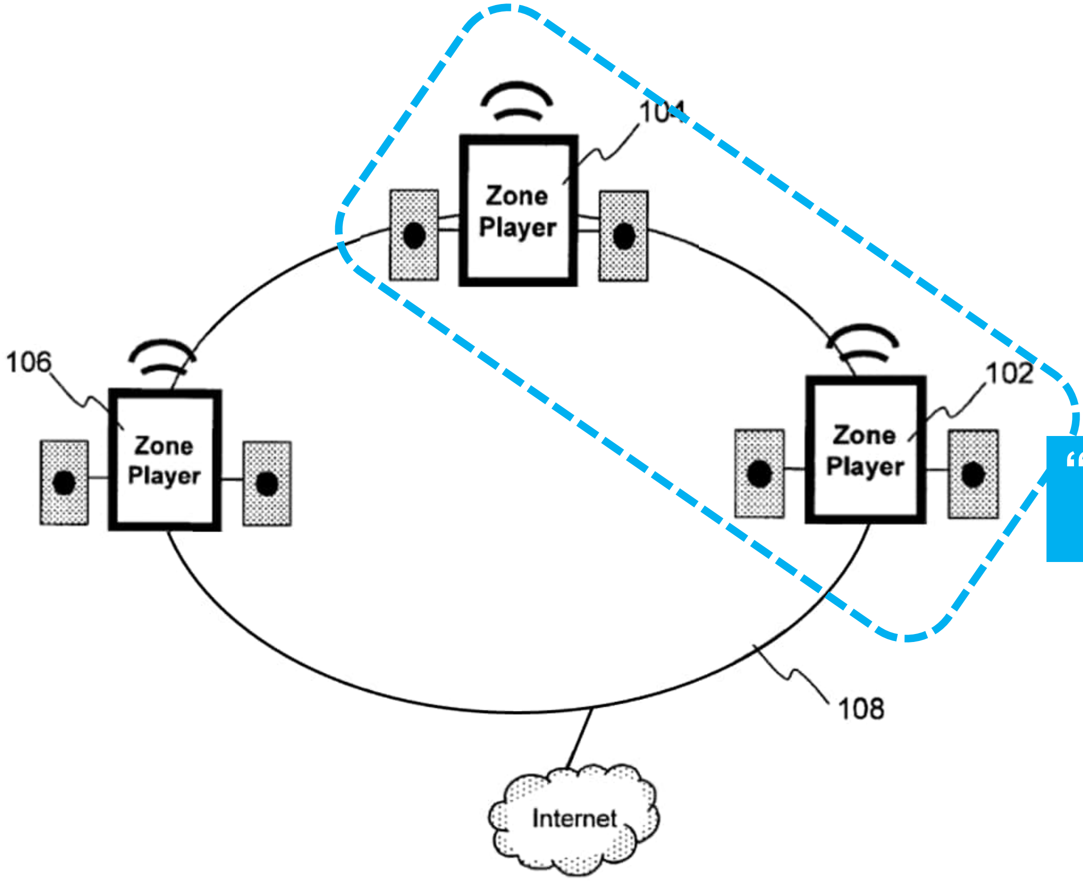
Sonos's "Zone Scene" Grouping – Presaved Groups for Future Use


zones
back
music
vol
+
-
ok
Check
Uncheck
Done

Zone Menu

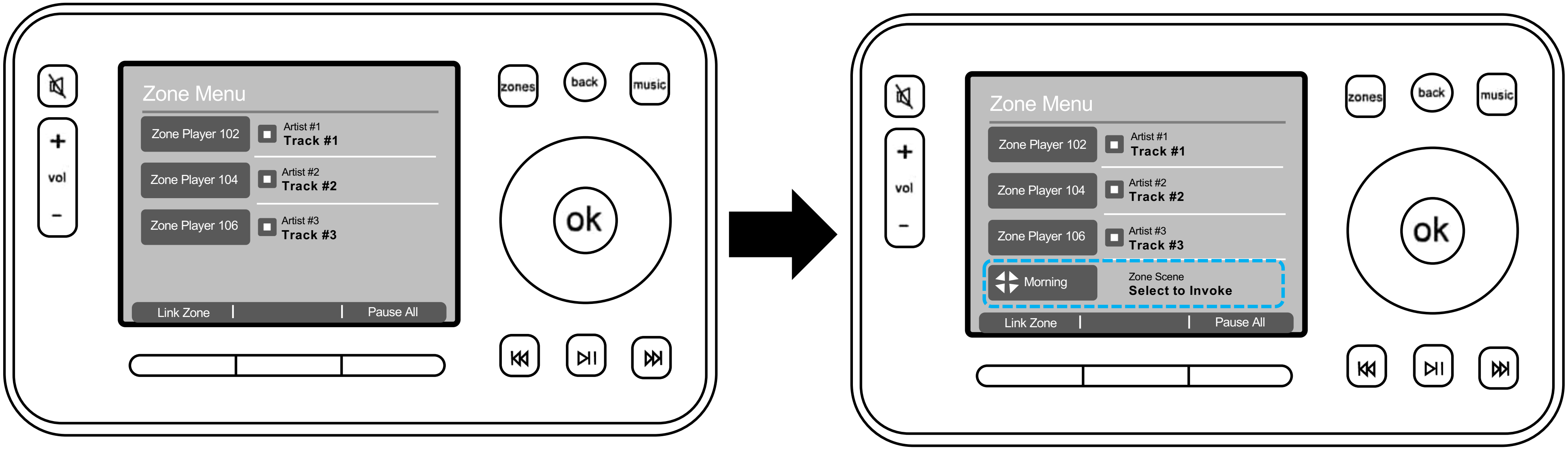
Select the zones in this group

✓ Zone Player 102
✓ Zone Player 104
Zone Player 106

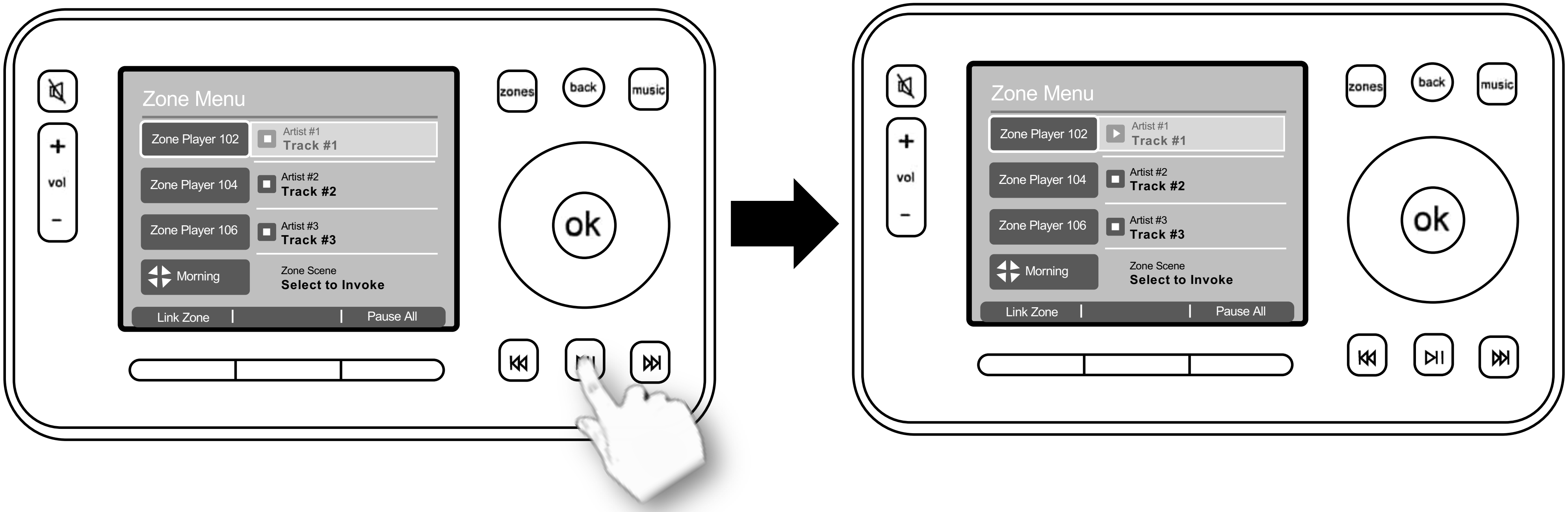

Zone Player
104
Zone Player
106
Zone Player
102
108
Internet

"Morning" Zone Scene (Uninvoked)

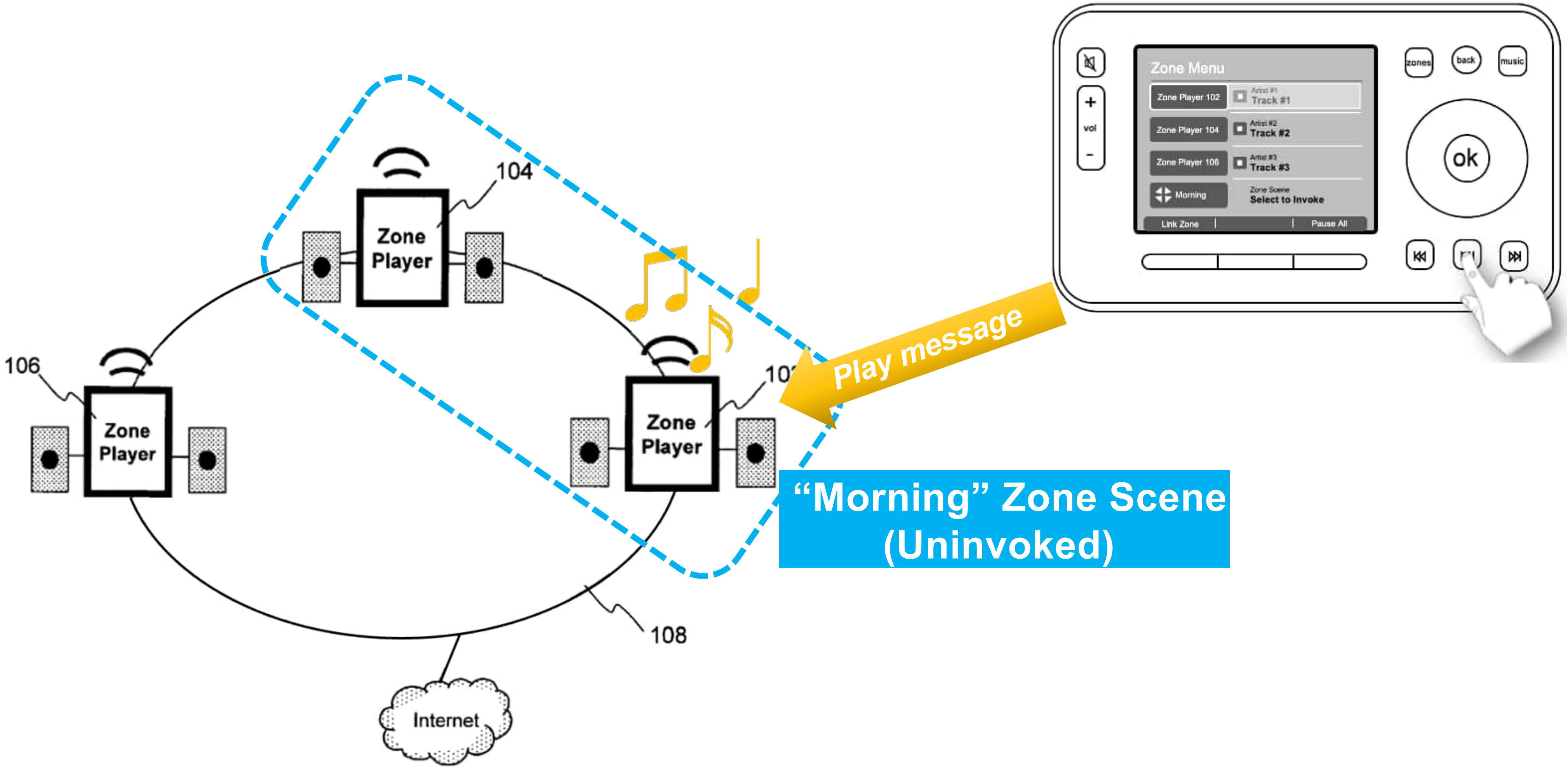
Sonos's "Zone Scene" Grouping – Presaved Groups for Future Use


Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Link Zone
Pause All
zones
back
music
ok
vol
Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
zones
back
music
ok
vol

Sonos's "Zone Scene" Grouping – Allows for Standalone Use

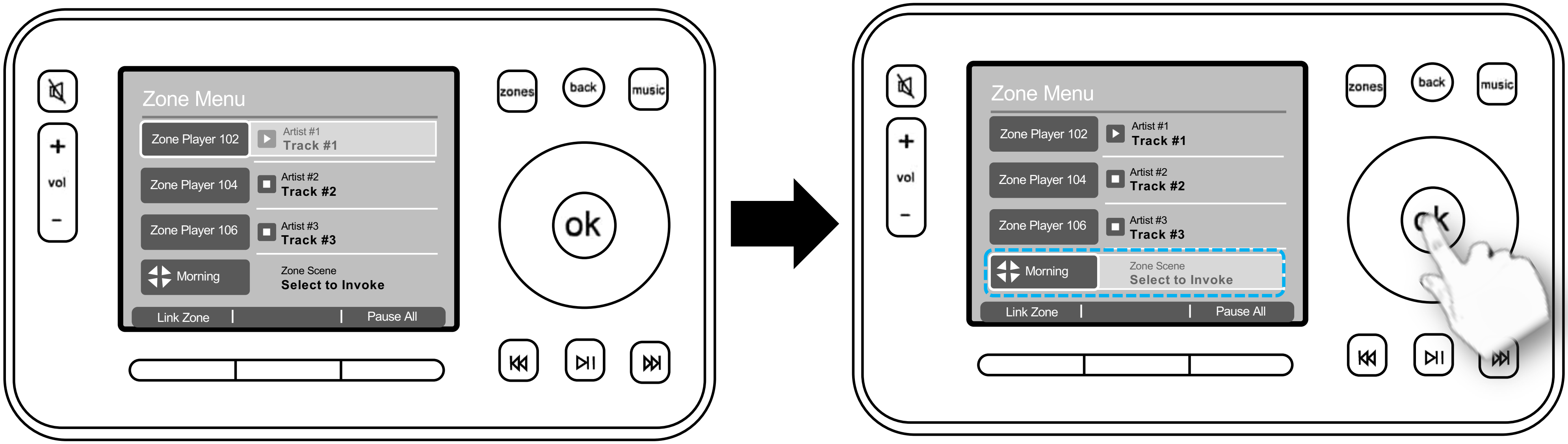

Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
vol
zones
back
music
ok
Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
vol
zones
back
music
ok

Sonos's "Zone Scene" Grouping – Allows for Standalone Use

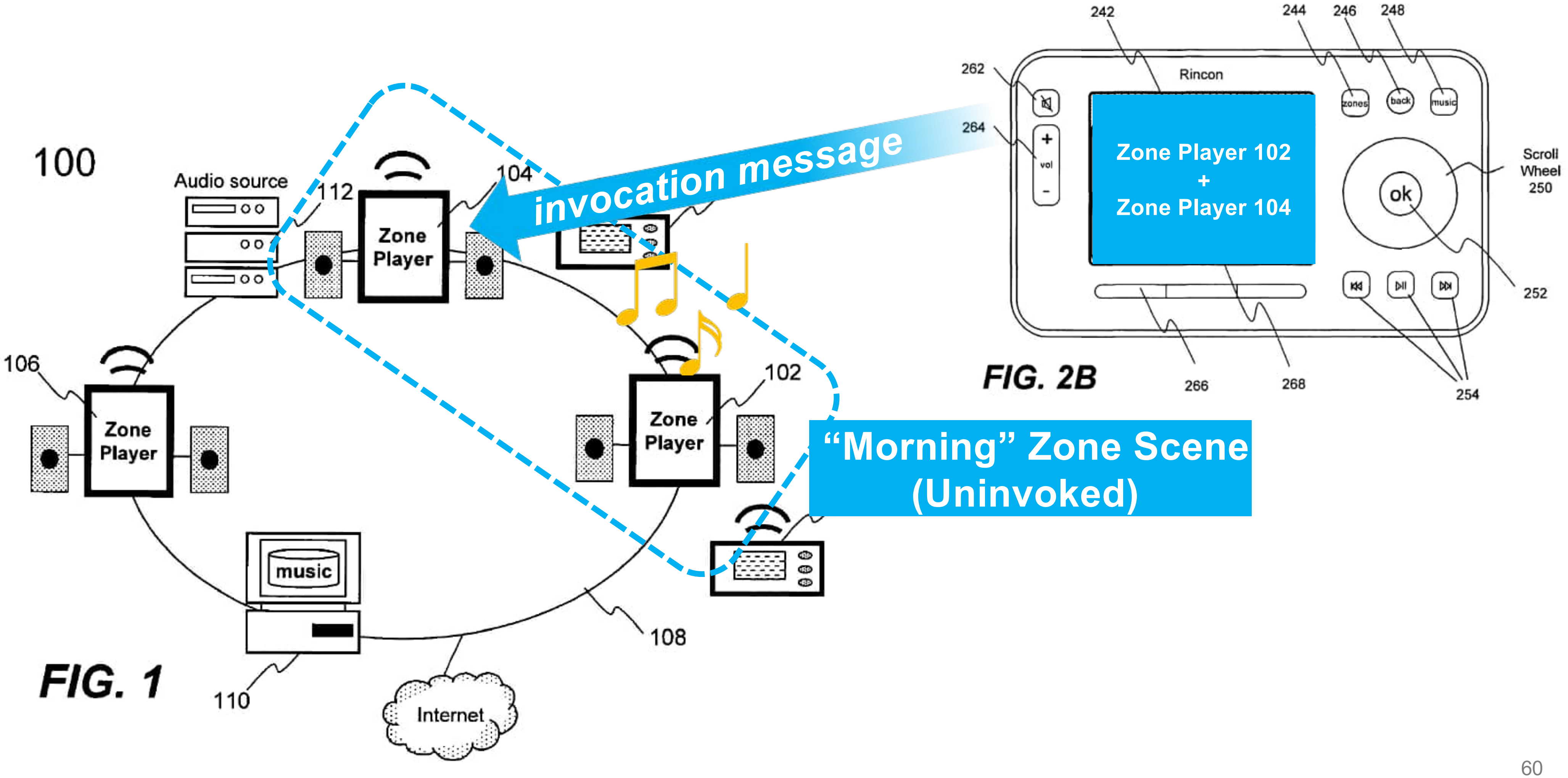

104
Zone Player
106
Zone Player
10
Zone Player
108
Internet
Play message
Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
vol
+
-
zones
back
music
ok

"Morning" Zone Scene (Uninvoked)

Sonos's "Zone Scene" Grouping – Can be Invoked Later on Demand


Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
vol
+
–
zones
back
music
ok
Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
vol
+
–
zones
back
music
ok

Sonos's "Zone Scene" Grouping – Can be Invoked Later on Demand


100
Audio source
112
Zone Player
104
106
Zone Player
102
Zone Player
music
108
110
Internet
242
244
246
248
262
Rincon
zones
back
music
264
vol
Scroll Wheel 250
ok
252
266
268
254
Zone Player 102
+
Zone Player 104

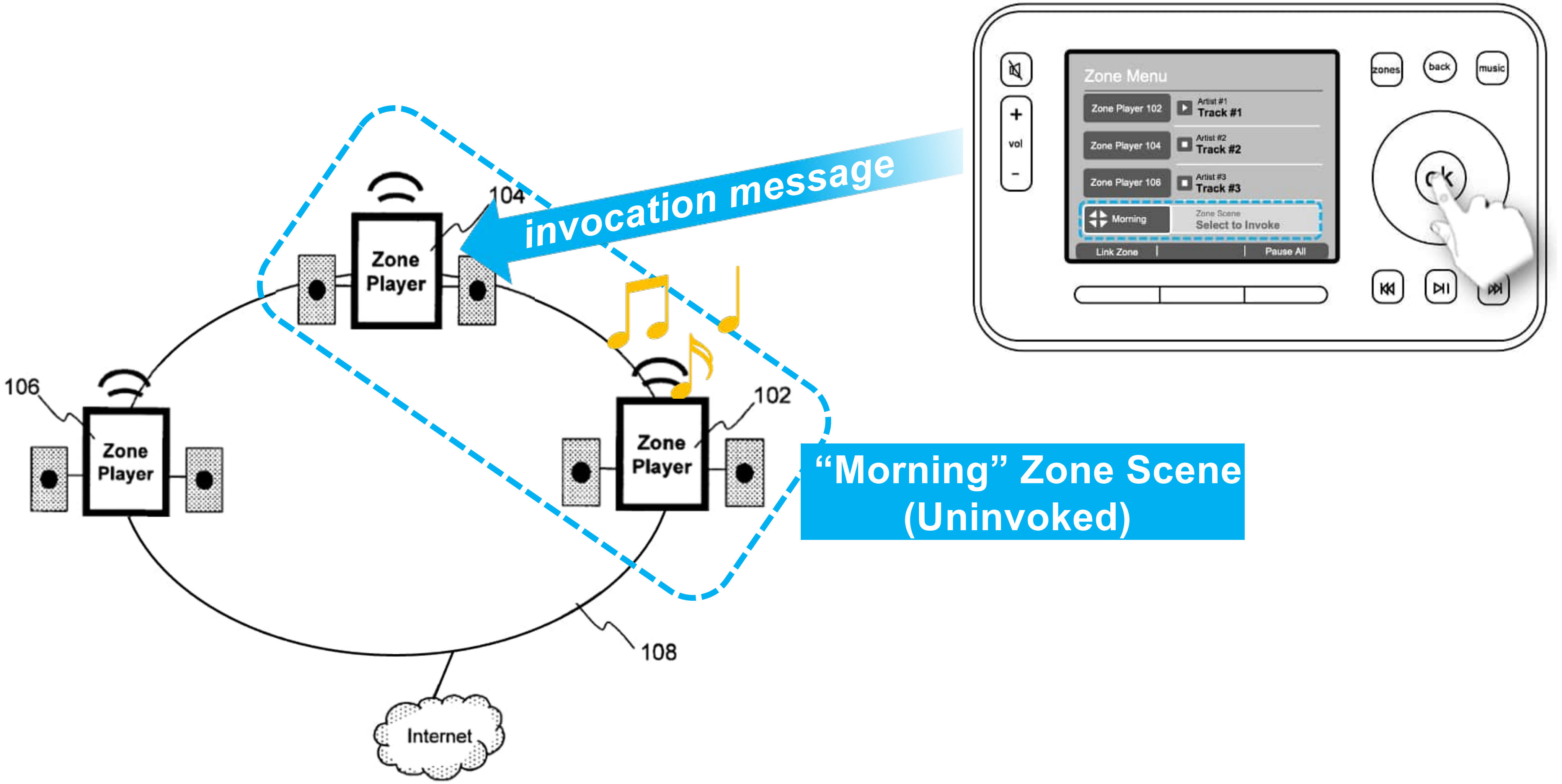
invocation message

"Morning" Zone Scene (Uninvoked)

FIG. 1

FIG. 2B

Sonos's "Zone Scene" Grouping – Can be Invoked Later on Demand


104
Zone Player
106
Zone Player
102
Zone Player
108
Internet
Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
zones
back
music
vol
ok

invocation message

"Morning" Zone Scene (Uninvoked)

Sonos's "Zone Scene" Grouping – Can be Invoked Later on Demand

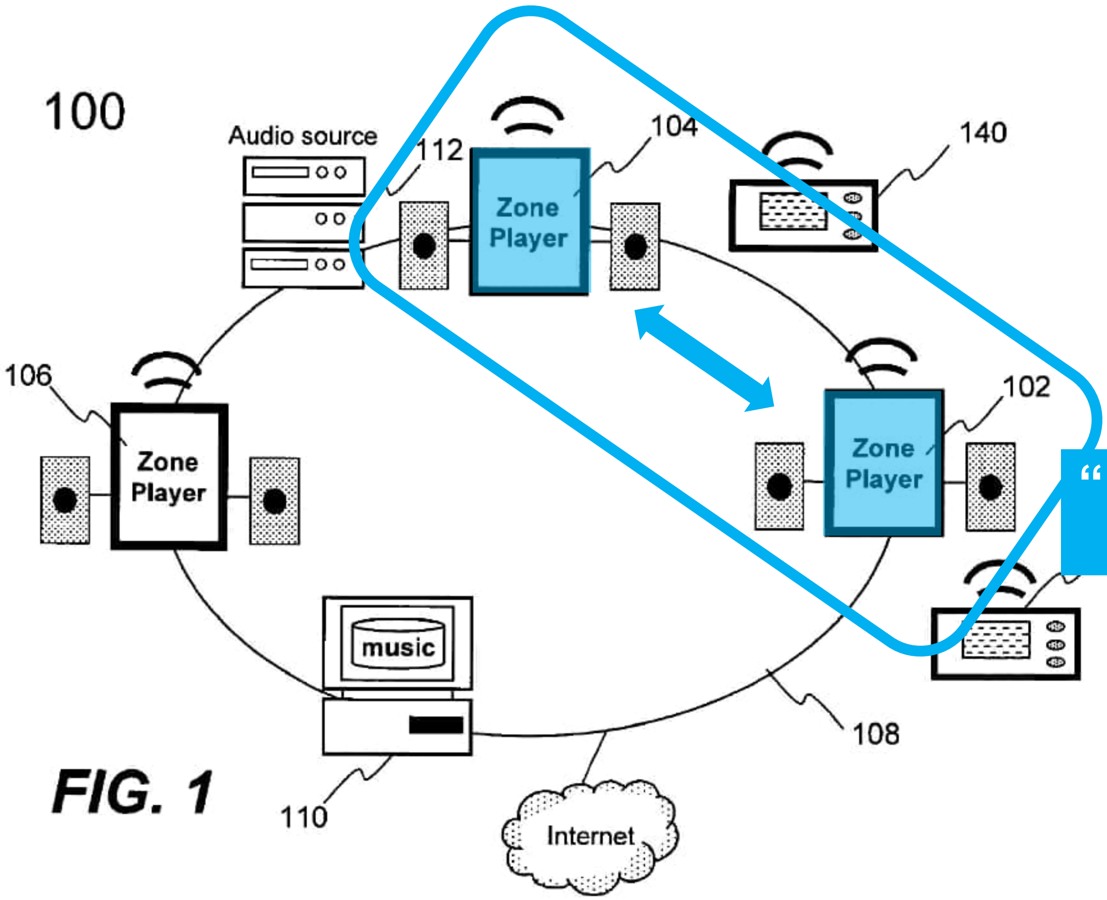

100
Audio source
112
104
Zone Player
140
106
Zone Player
102
Zone Player
music
108
110
Internet

FIG. 1

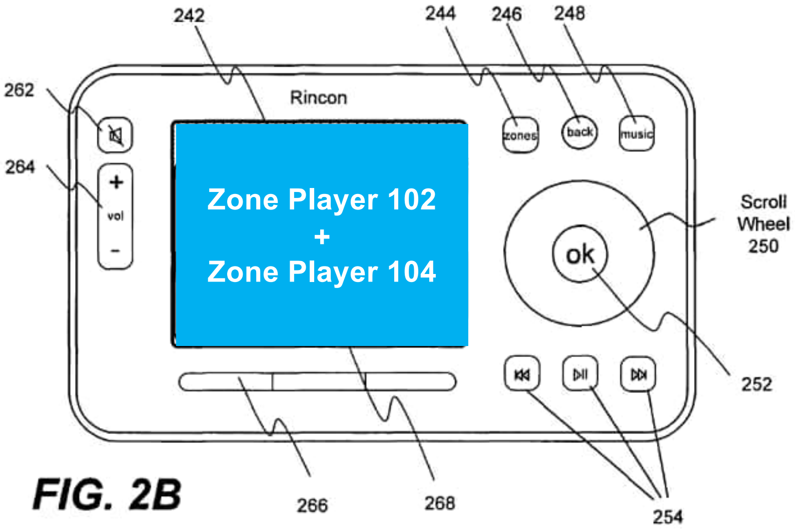
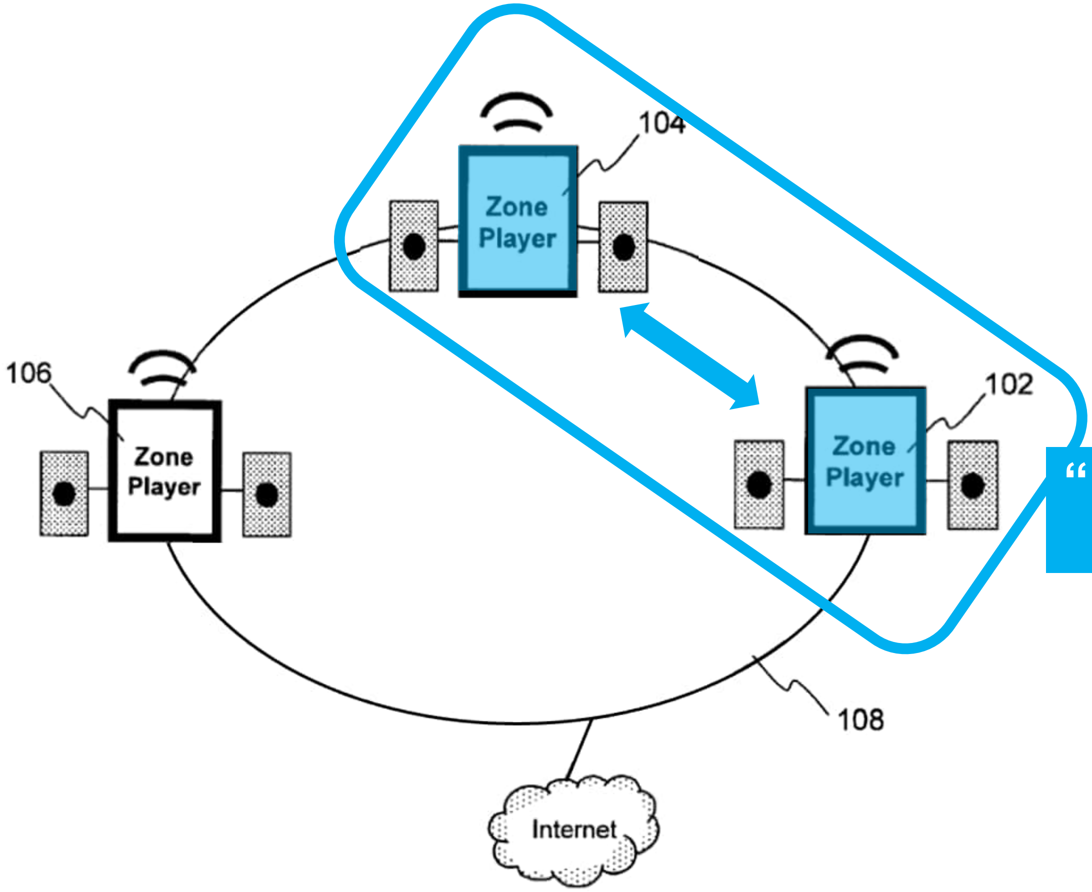
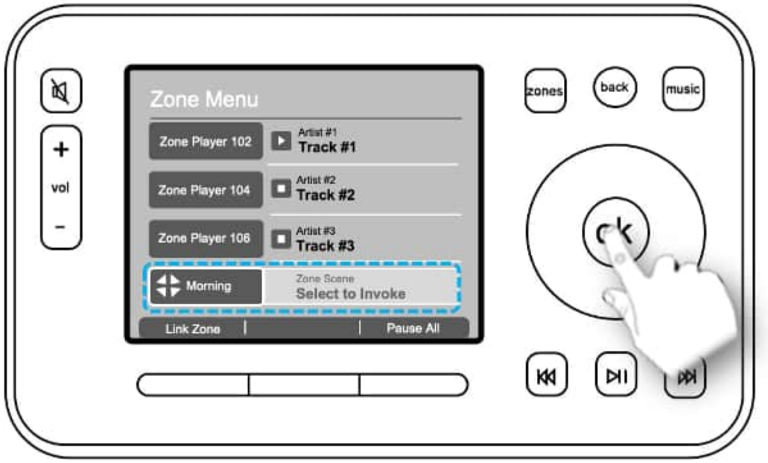

242
244
246
248
262
Rincon
zones
back
music
264
+
vol
-
Zone Player 102
+
Zone Player 104
ok
Scroll Wheel 250
252
266
268
254

FIG. 2B

"Morning" Zone Scene (Invoked)

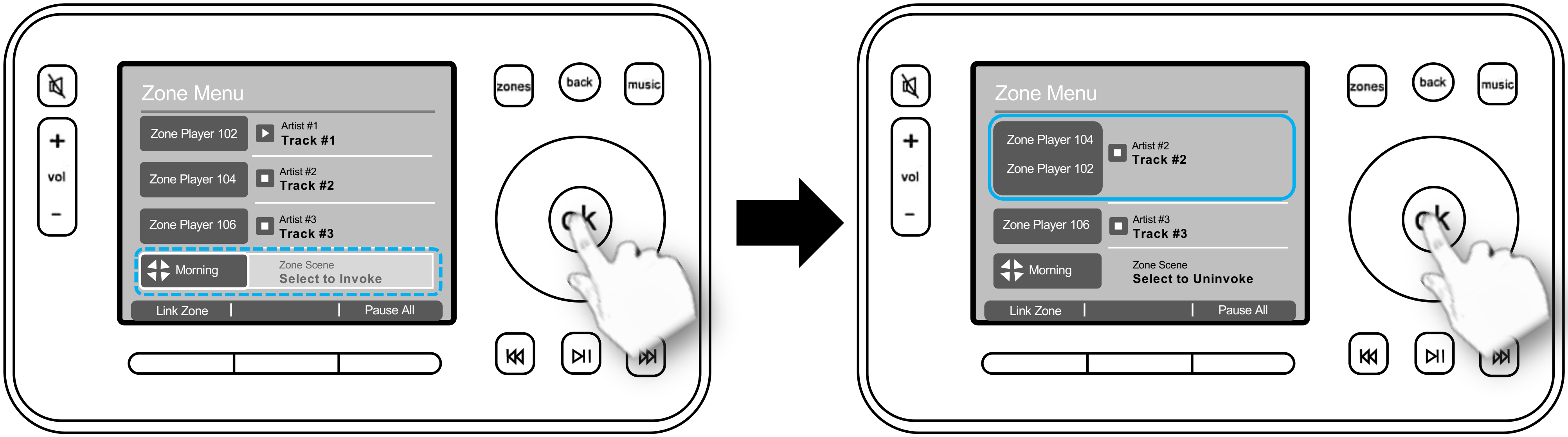
Sonos's "Zone Scene" Grouping – Can be Invoked Later on Demand


104
Zone Player
106
Zone Player
102
Zone Player
108
Internet

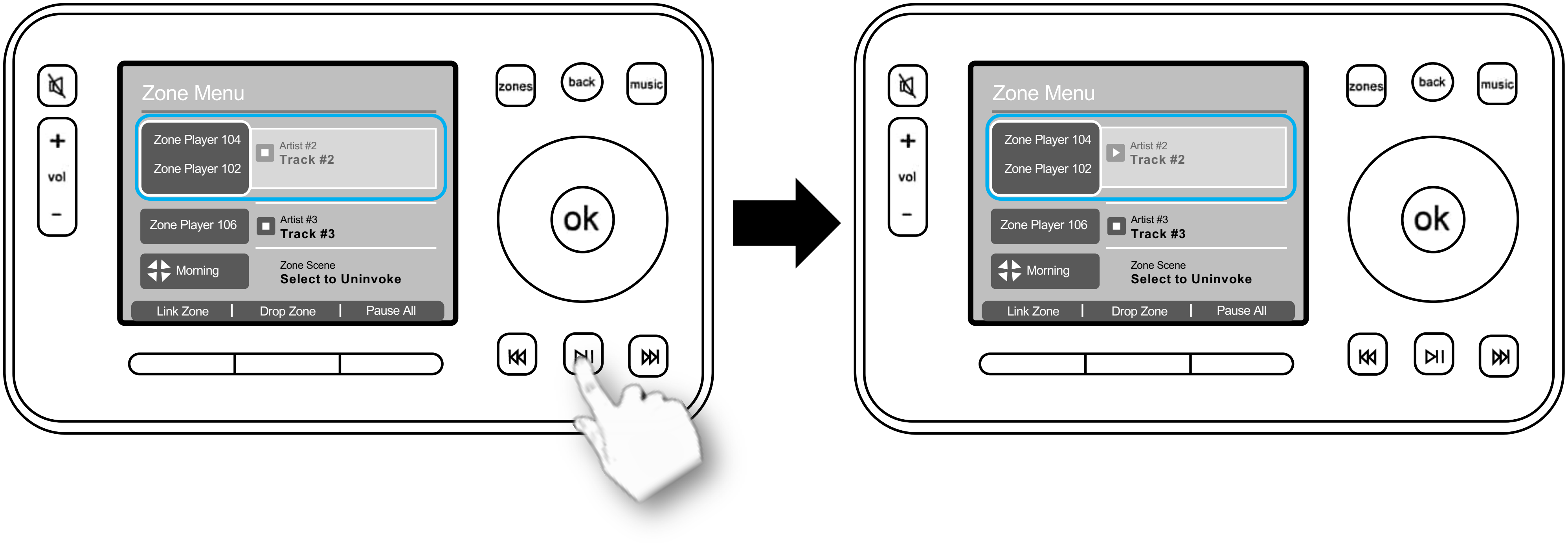

vol
Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
zones
back
music
ok

"Morning" Zone Scene (Invoked)

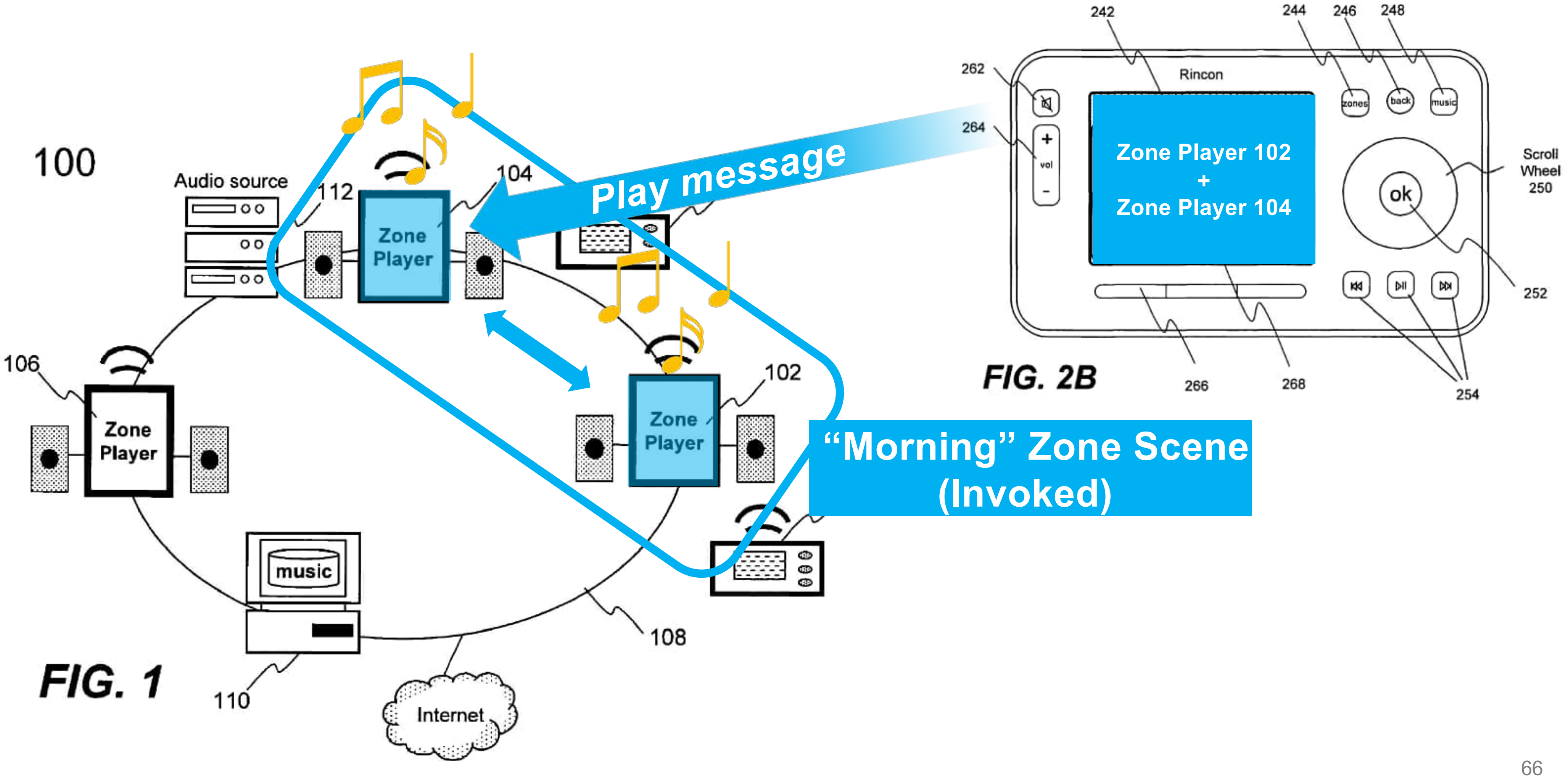
Sonos's "Zone Scene" Grouping – Can be Invoked Later on Demand


vol
zones
back
music
Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
ok
vol
zones
back
music
Zone Menu
Zone Player 104
Zone Player 102
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Uninvoke
Link Zone
Pause All
ok

Sonos's "Zone Scene" Grouping - Initiating Playback After Invocation


Zone Menu
Zone Player 104
Zone Player 102
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Uninvoke
Link Zone
Drop Zone
Pause All
zones
back
music
vol
ok
Zone Menu
Zone Player 104
Zone Player 102
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Uninvoke
Link Zone
Drop Zone
Pause All
zones
back
music
vol
ok

Sonos's "Zone Scene" Grouping – Initiating Playback After Invocation


100
Audio source
112
104
Zone Player
Zone Player
102
106
Zone Player
music
108
110
Internet
242
244
246
248
262
264
Rincon
zones
back
music
vol
ok
Scroll Wheel 250
252
254
266
268

Play message

Zone Player 102
+
Zone Player 104

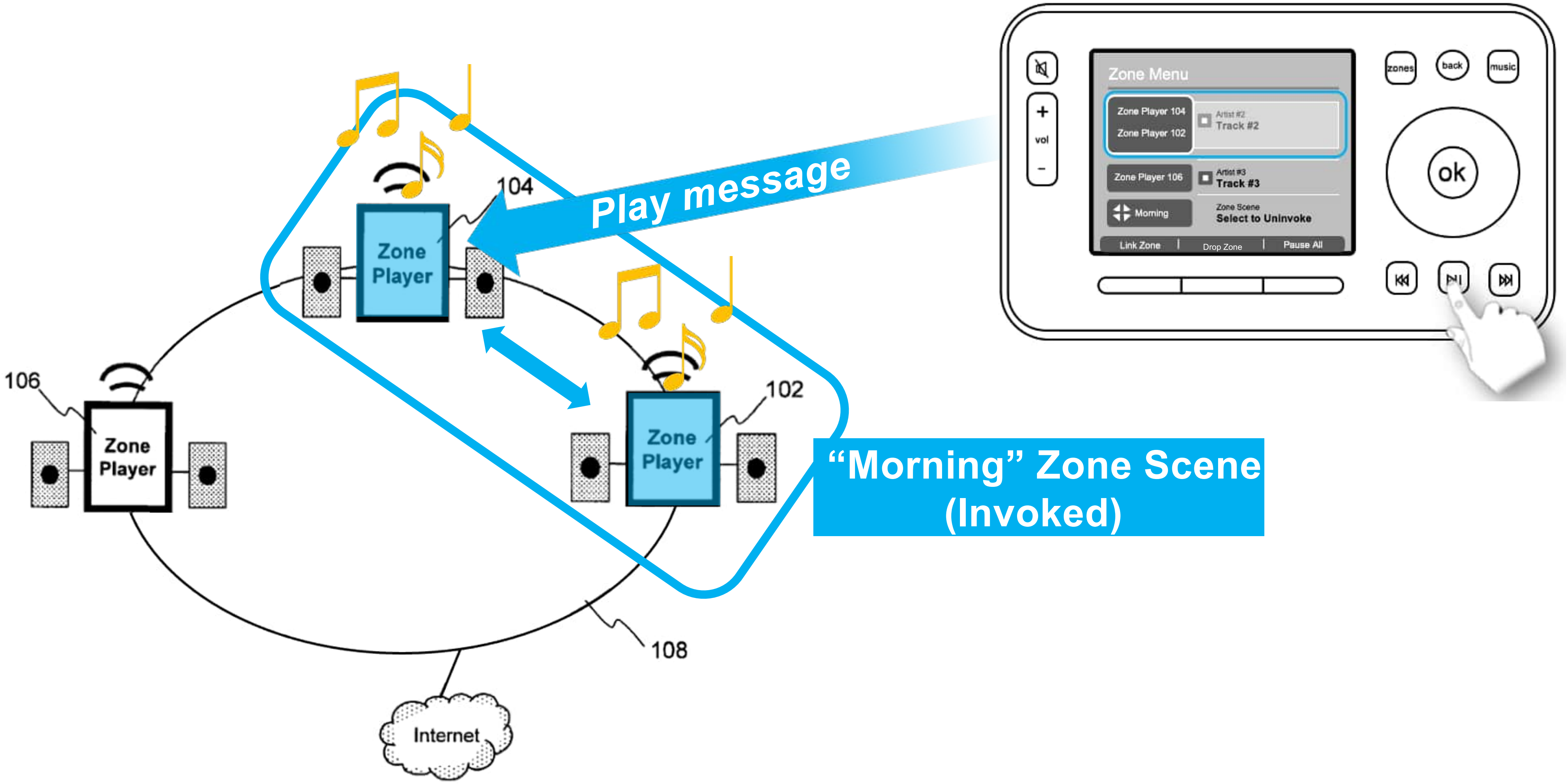
"Morning" Zone Scene (Invoked)

FIG. 1

FIG. 2B

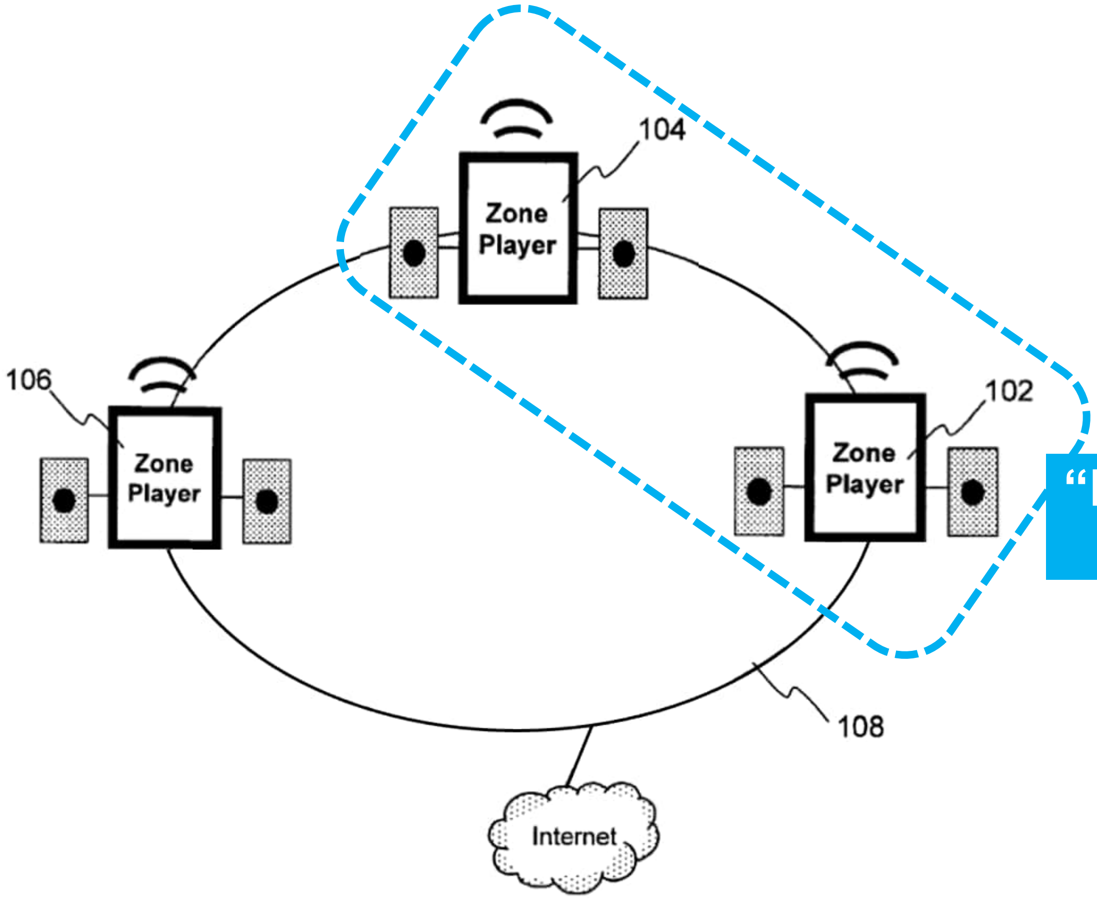
EXHIBIT A - FILED UNDER SEAL

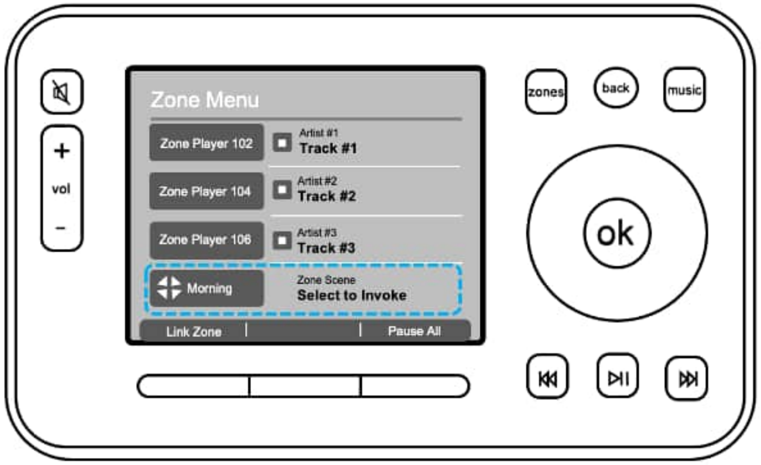
Sonos's "Zone Scene" Grouping – Initiating Playback After Invocation


Play message
104
Zone Player
102
Zone Player
106
Zone Player
108
Internet
Zone Menu
Zone Player 104
Zone Player 102
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Uninvoke
Link Zone
Drop Zone
Pause All
vol
zones
back
music
ok

"Morning" Zone Scene (Invoked)

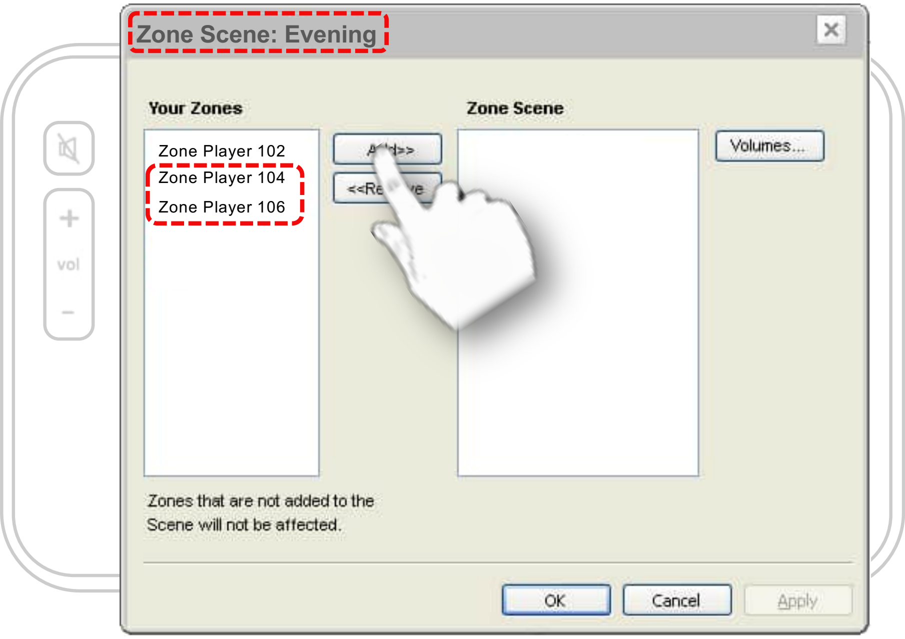
Sonos's "Zone Scene" Grouping – Allows For Overlapping Groups


104
Zone Player
106
Zone Player
102
Zone Player
108
Internet


Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
vol
zones
back
music
ok

"Morning" Zone Scene (Uninvoked)

Sonos's "Zone Scene" Grouping – Allows For Overlapping Groups



Zone Scene: Evening

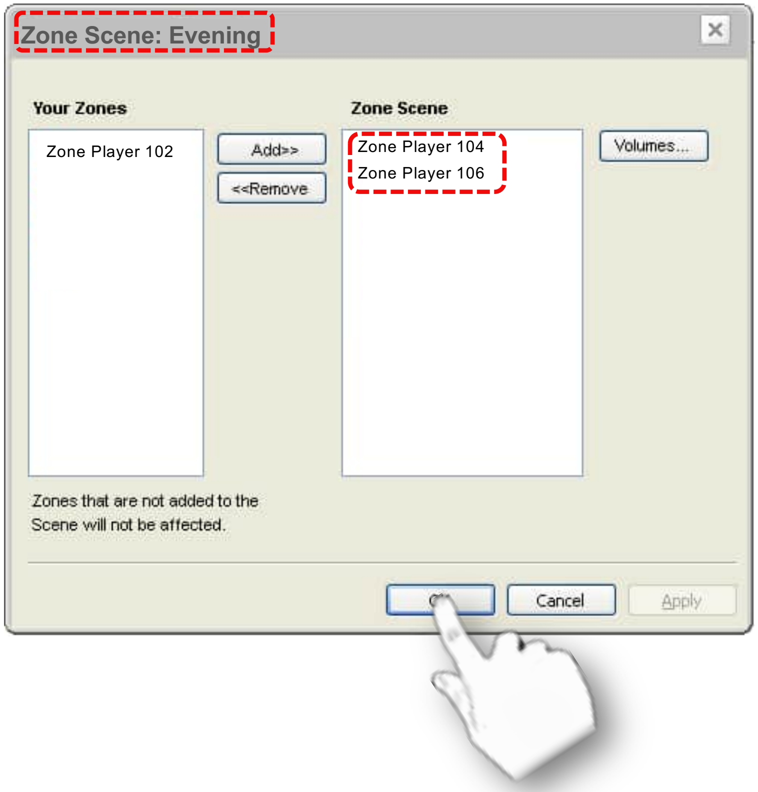
Your Zones

Zone Player 102
Zone Player 104
Zone Player 106

Zone Scene

Zones that are not added to the Scene will not be affected.

Add>>
<<Remove
Volumes...
OK
Cancel
Apply
vol



Zone Scene: Evening

Your Zones

Zone Player 102

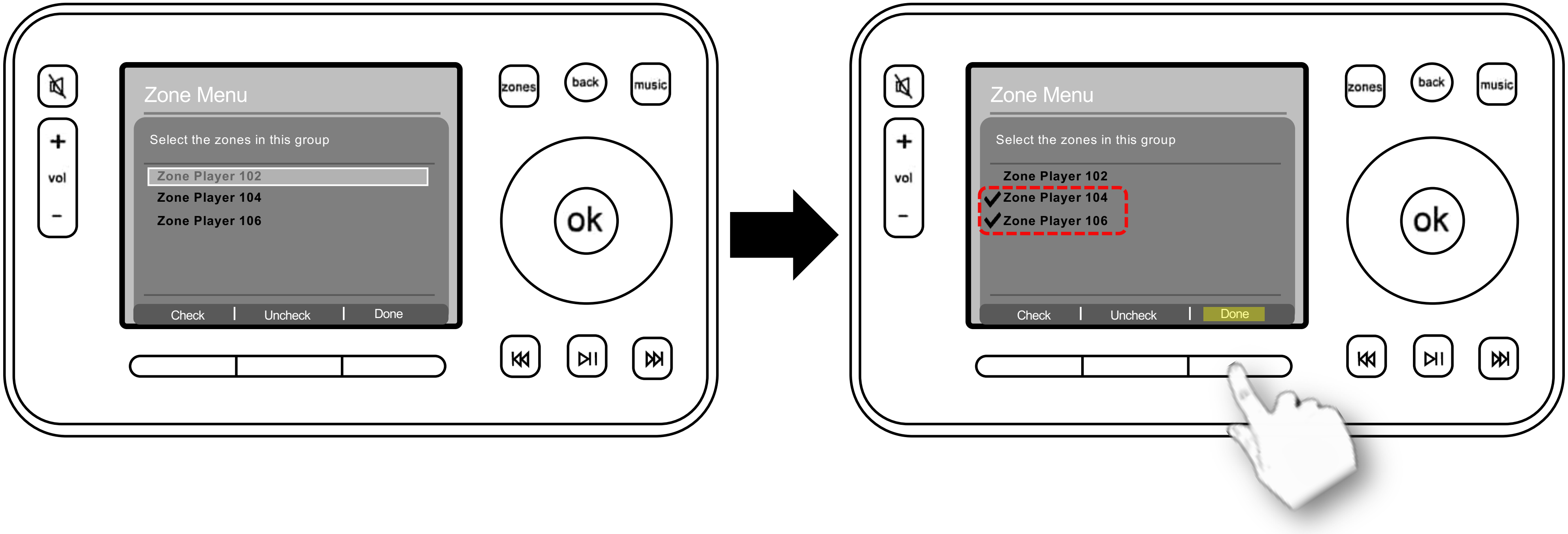
Zone Scene

Zone Player 104
Zone Player 106

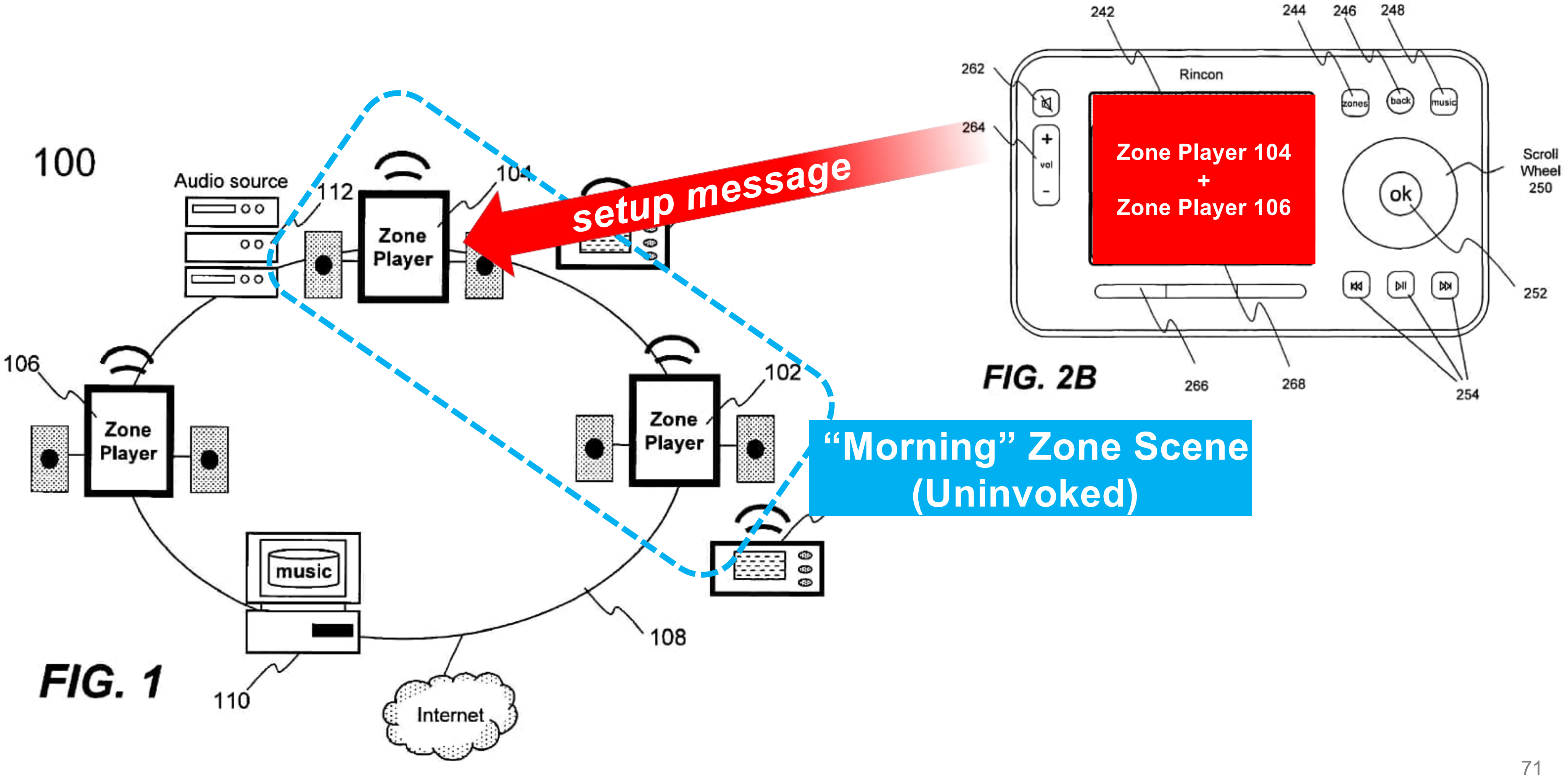
Zones that are not added to the Scene will not be affected.

Add>>
<<Remove
Volumes...
OK
Cancel
Apply

Sonos's "Zone Scene" Grouping – Allows For Overlapping Groups


Zone Menu
Select the zones in this group
Zone Player 102
Zone Player 104
Zone Player 106
Check
Uncheck
Done
zones
back
music
vol
ok
Zone Menu
Select the zones in this group
Zone Player 102
✓ Zone Player 104
✓ Zone Player 106
Check
Uncheck
Done
zones
back
music
vol
ok

Sonos's "Zone Scene" Grouping – Allows For Overlapping Groups

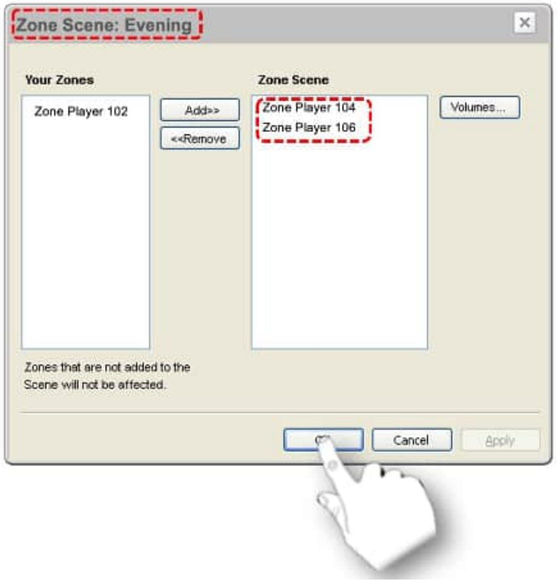

100
Audio source
112
104
Zone Player
106
Zone Player
102
Zone Player
music
108
110
Internet
FIG. 1
242
244
246
248
262
264
Rincon
zones
back
music
+
vol
-
ok
Scroll Wheel 250
252
266
268
254
FIG. 2B

setup message

Zone Player 104 + Zone Player 106

"Morning" Zone Scene (Uninvoked)

Sonos's "Zone Scene" Grouping – Allows For Overlapping Groups



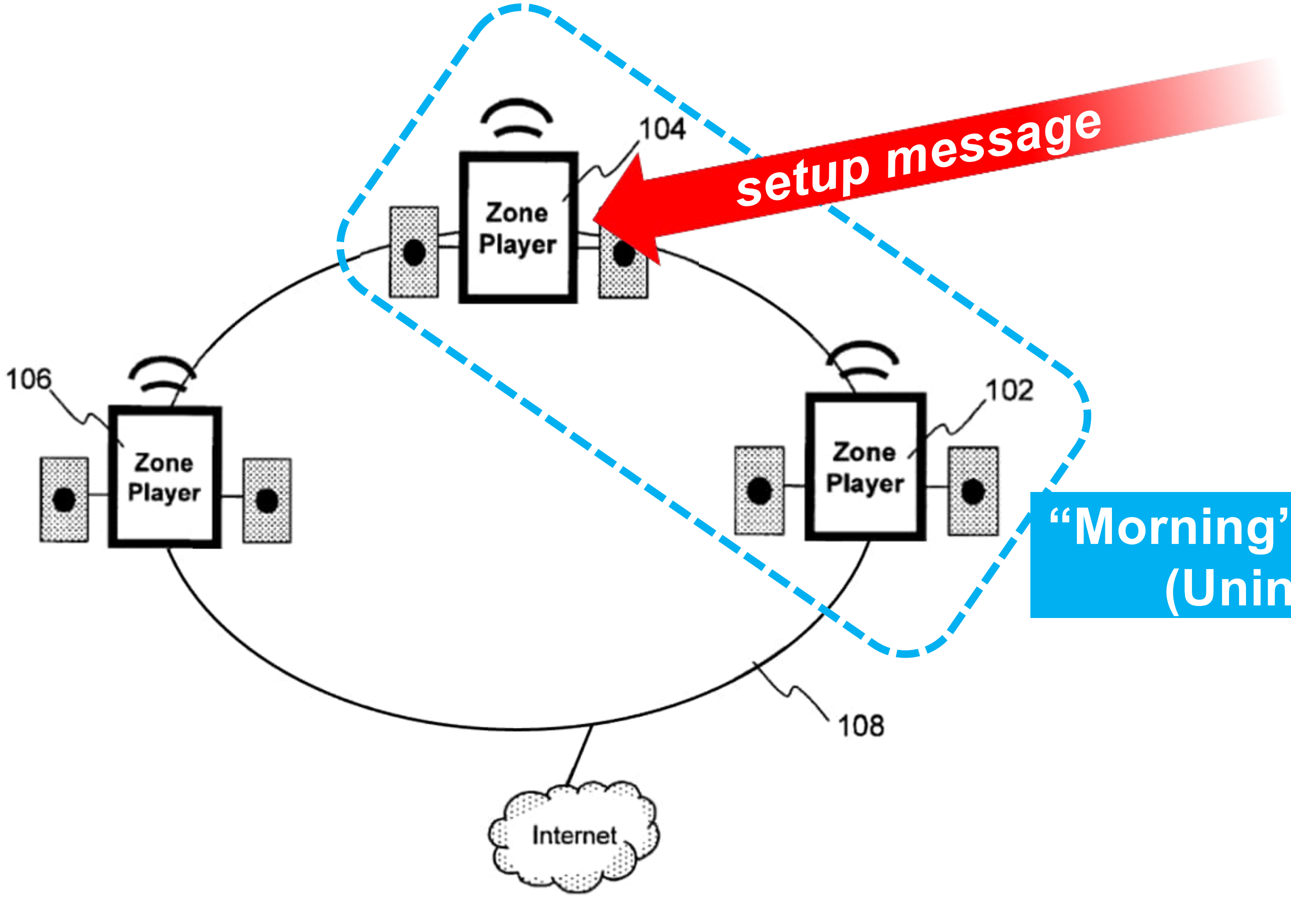
Zone Scene: Evening

Your Zones
Zone Player 102

Zone Scene
Zone Player 104
Zone Player 106

Zones that are not added to the Scene will not be affected.

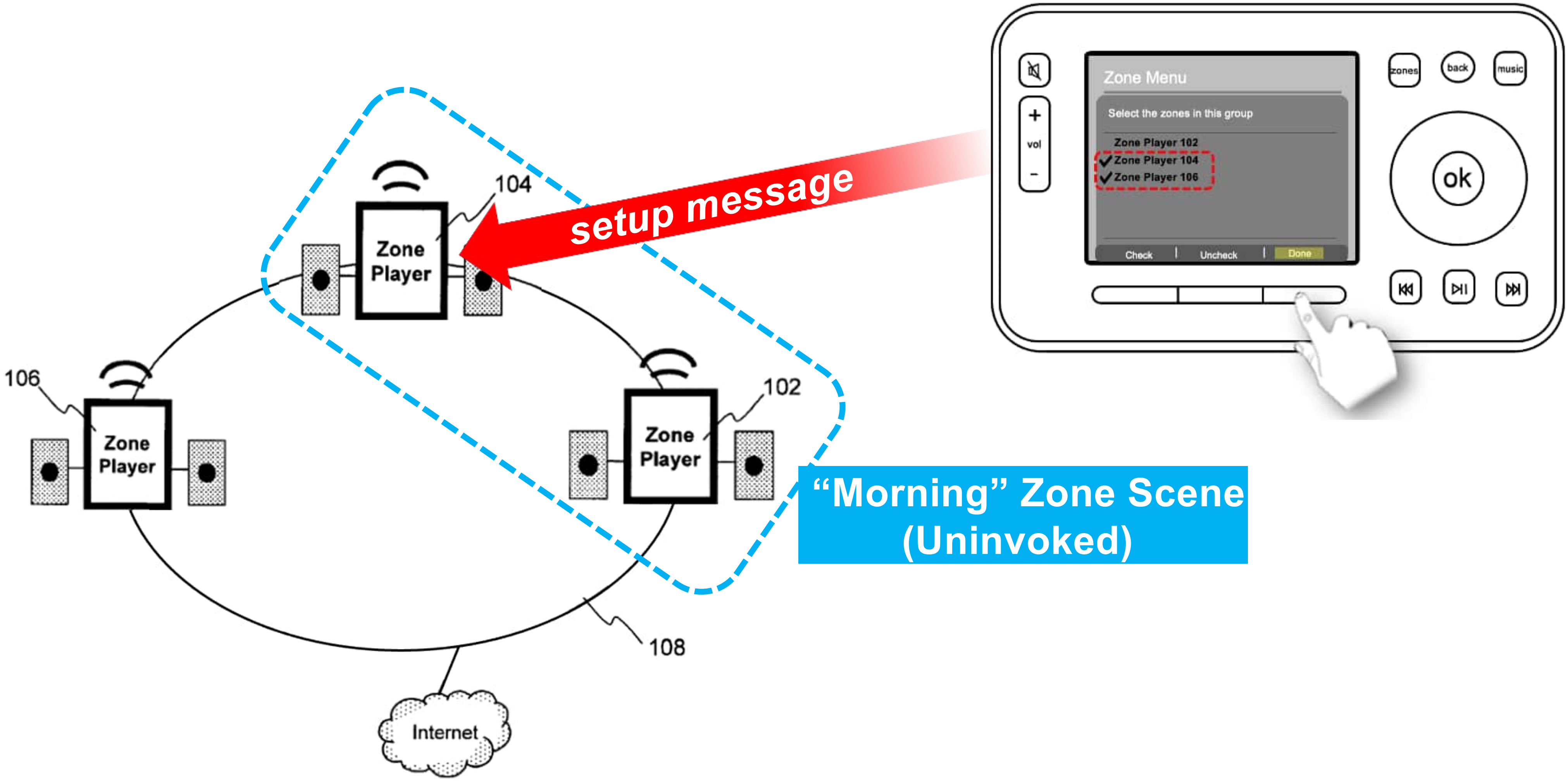
Add>>
<<Remove
Volumes...
OK
Cancel
Apply



setup message
104
Zone Player
106
Zone Player
102
Zone Player
108
Internet

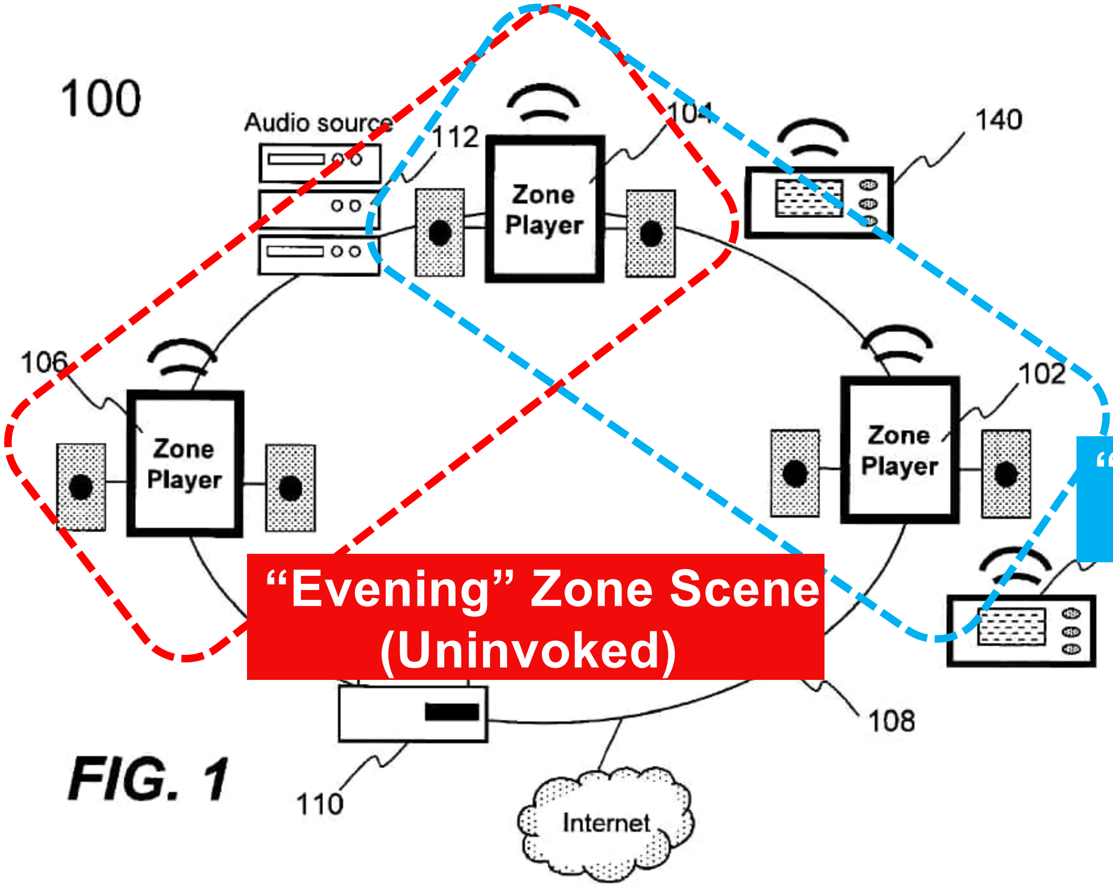
"Morning" Zone Scene (Uninvoked)

Sonos's "Zone Scene" Grouping – Allows For Overlapping Groups


setup message
104
Zone Player
106
Zone Player
102
Zone Player
108
Internet
vol
Zone Menu
Select the zones in this group
Zone Player 102
✓Zone Player 104
✓Zone Player 106
Check
Uncheck
Done
zones
back
music
ok

"Morning" Zone Scene
(Uninvoked)

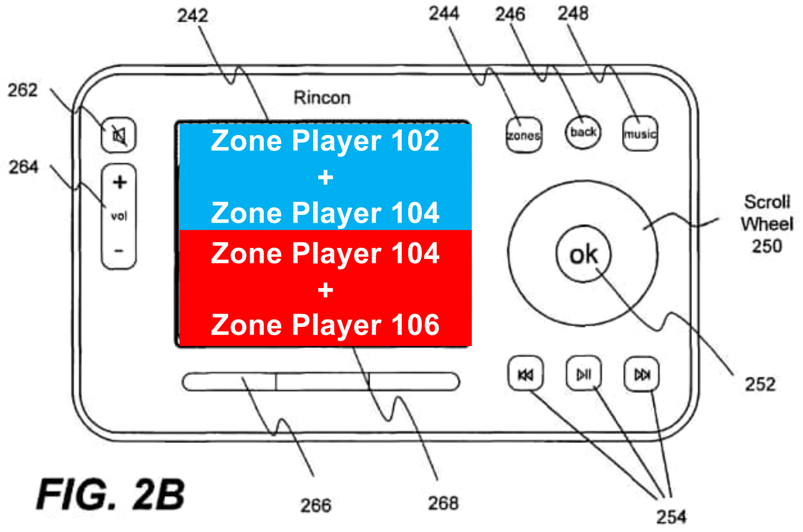
Sonos's "Zone Scene" Grouping – Allows For Overlapping Groups


100
Audio source
112
Zone Player
104
140
106
Zone Player
102
Zone Player
108
110
Internet

"Evening" Zone Scene (Uninvoked)

"Morning" Zone Scene (Uninvoked)

FIG. 1

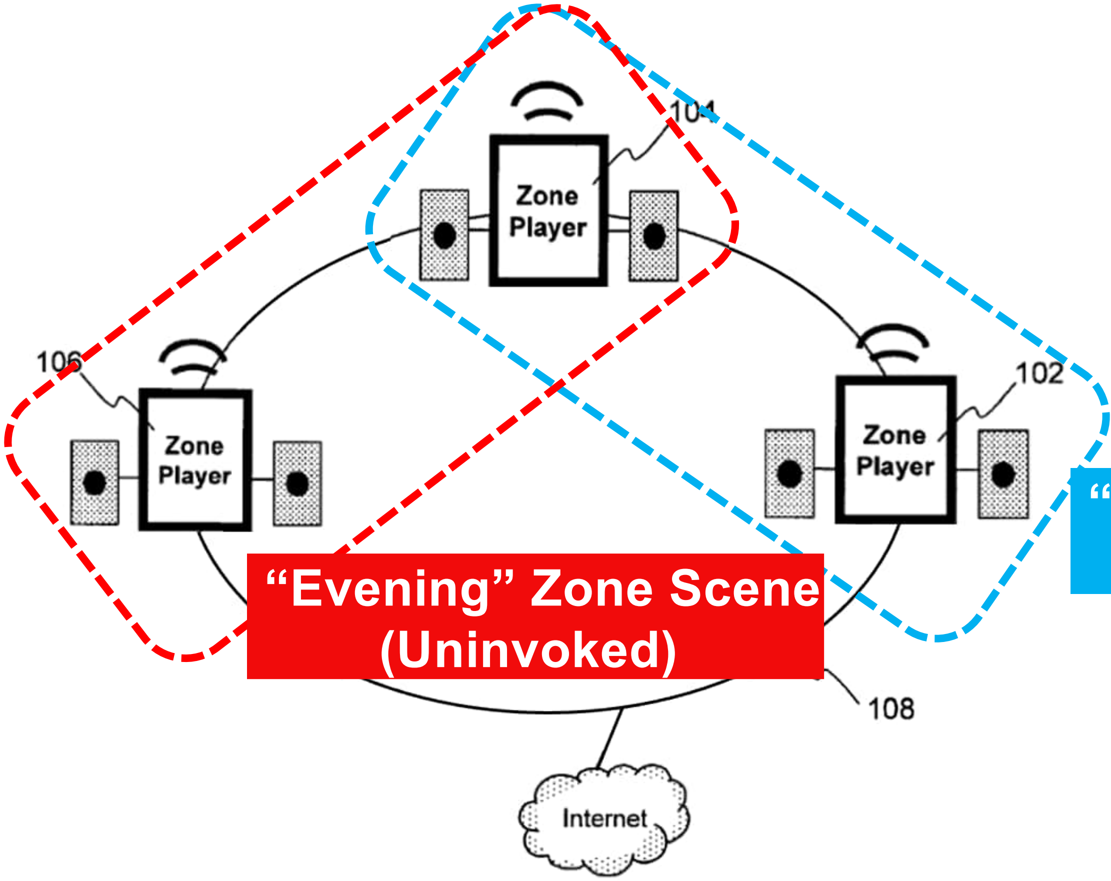

242
244
246
248
262
Rincon
zones
back
music
264
+
vol
-
ok
Scroll Wheel 250
252
266
268
254

Zone Player 102
+
Zone Player 104

Zone Player 104
+
Zone Player 106

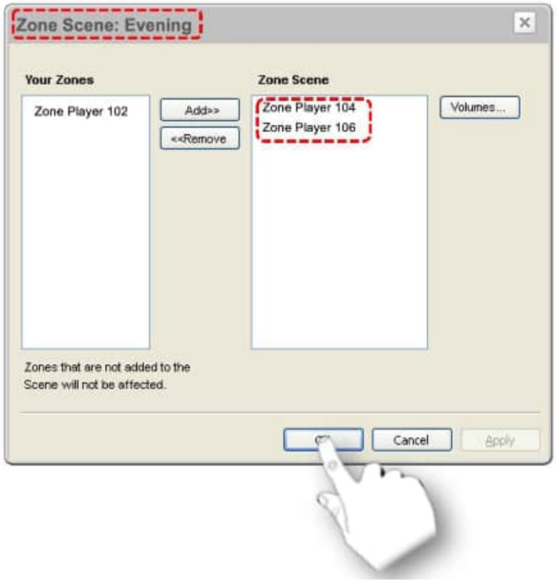
FIG. 2B

Sonos's "Zone Scene" Grouping – Allows For Overlapping Groups


104
Zone Player
106
Zone Player
102
Zone Player
108
Internet

"Evening" Zone Scene (Uninvoked)

"Morning" Zone Scene (Uninvoked)

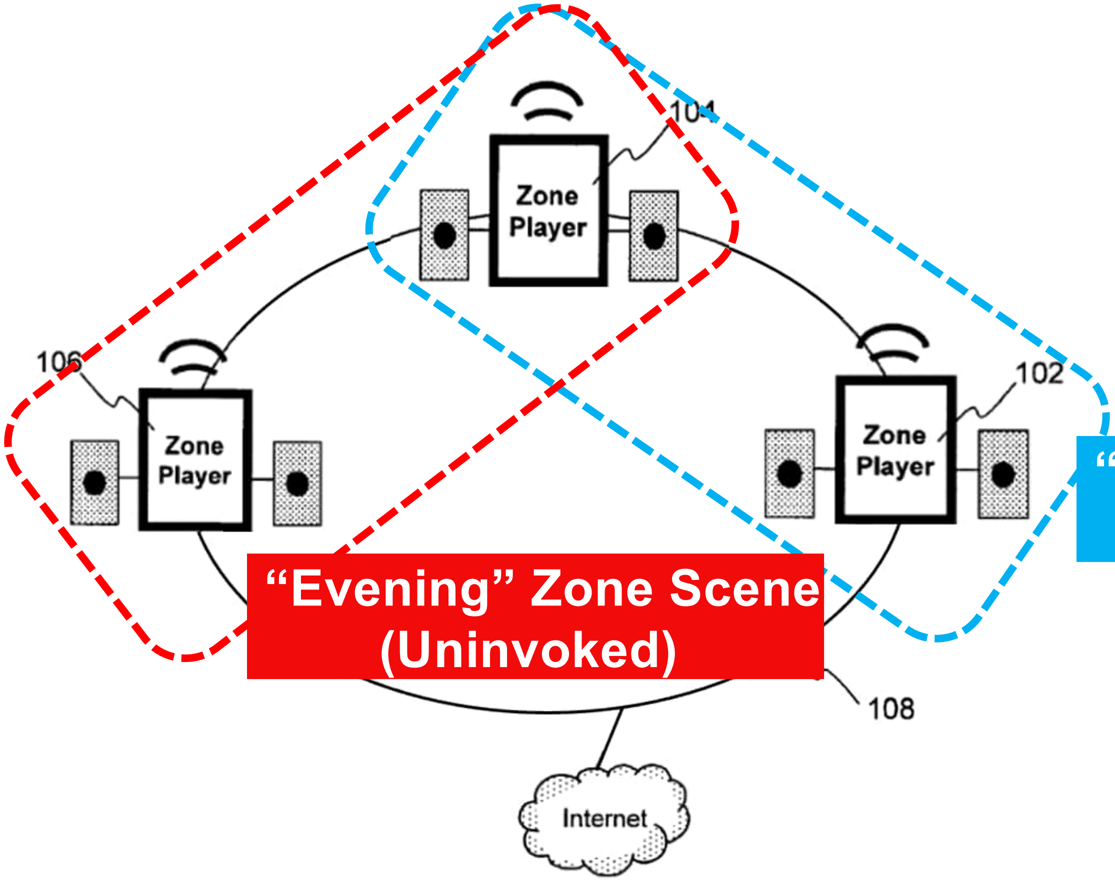

Zone Scene: Evening

Your Zones: Zone Player 102

Zone Scene: Zone Player 104, Zone Player 106

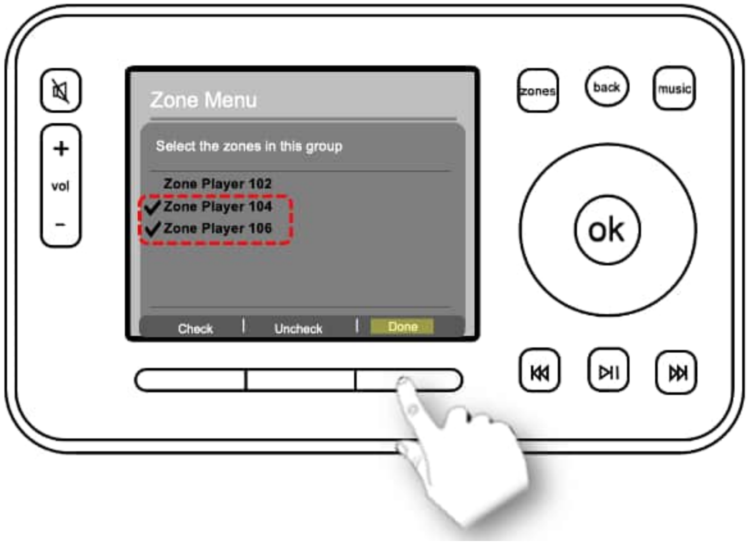
Zones that are not added to the Scene will not be affected.
Add>>
<<Remove
Volumes...
OK
Cancel
Apply

Sonos's "Zone Scene" Grouping – Allows For Overlapping Groups


104
Zone Player
106
Zone Player
102
Zone Player
108
Internet

"Evening" Zone Scene (Uninvoked)

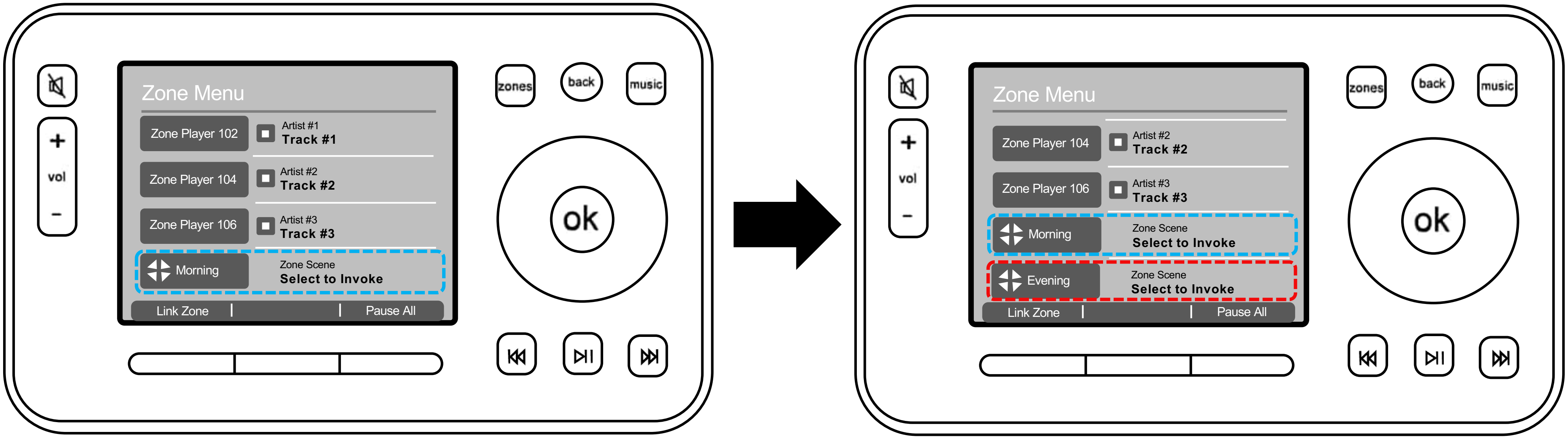
"Morning" Zone Scene (Uninvoked)


vol
+
-
zones
back
music
ok
Zone Menu
Check
Uncheck
Done

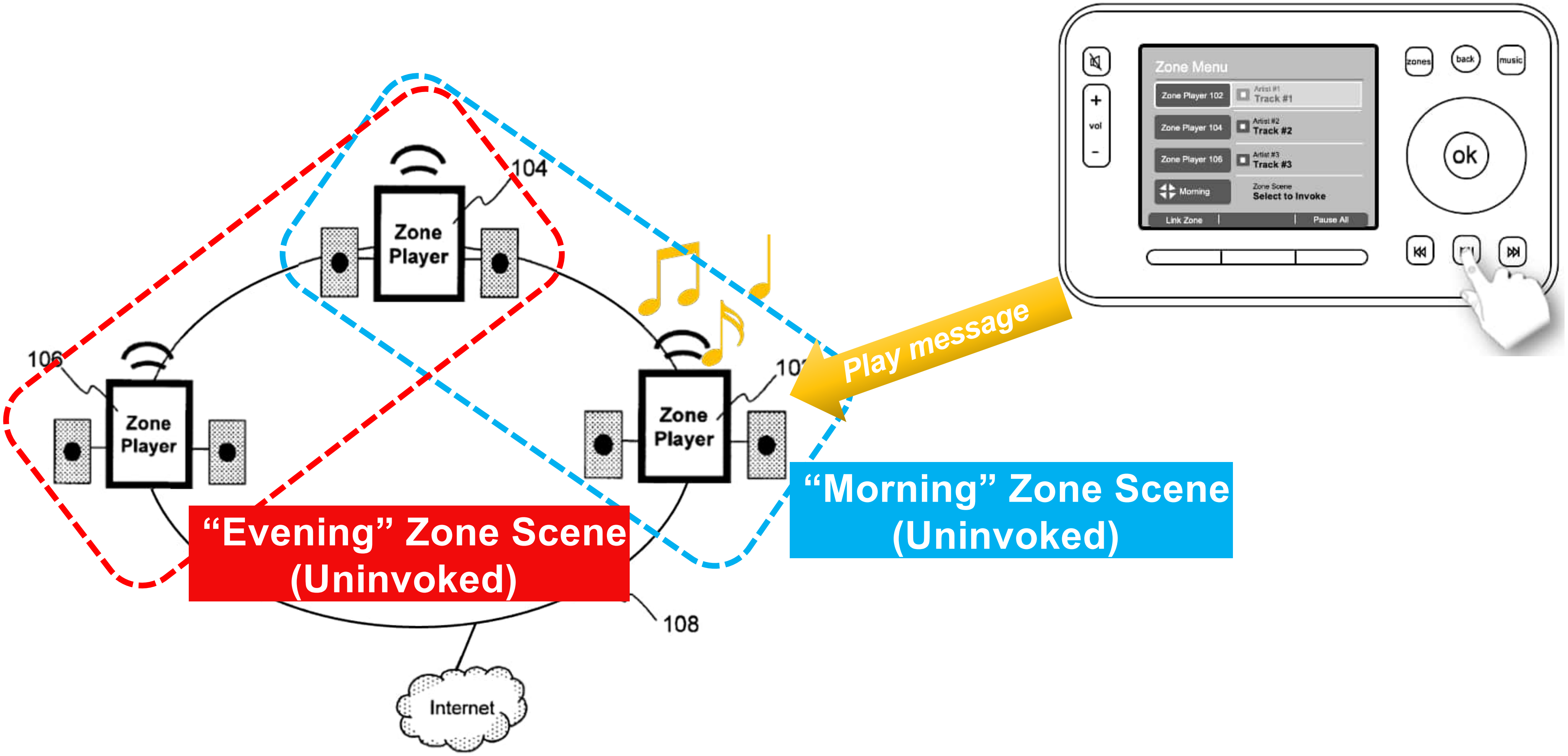
Select the zones in this group

Zone Player 102
✓Zone Player 104
✓Zone Player 106

Sonos's "Zone Scene" Grouping – Allows For Overlapping Groups


vol
Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
zones
back
music
ok
vol
Zone Menu
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Invoke
Evening
Zone Scene
Select to Invoke
Link Zone
Pause All
zones
back
music
ok

Sonos's "Zone Scene" Grouping – Allows for Standalone Use

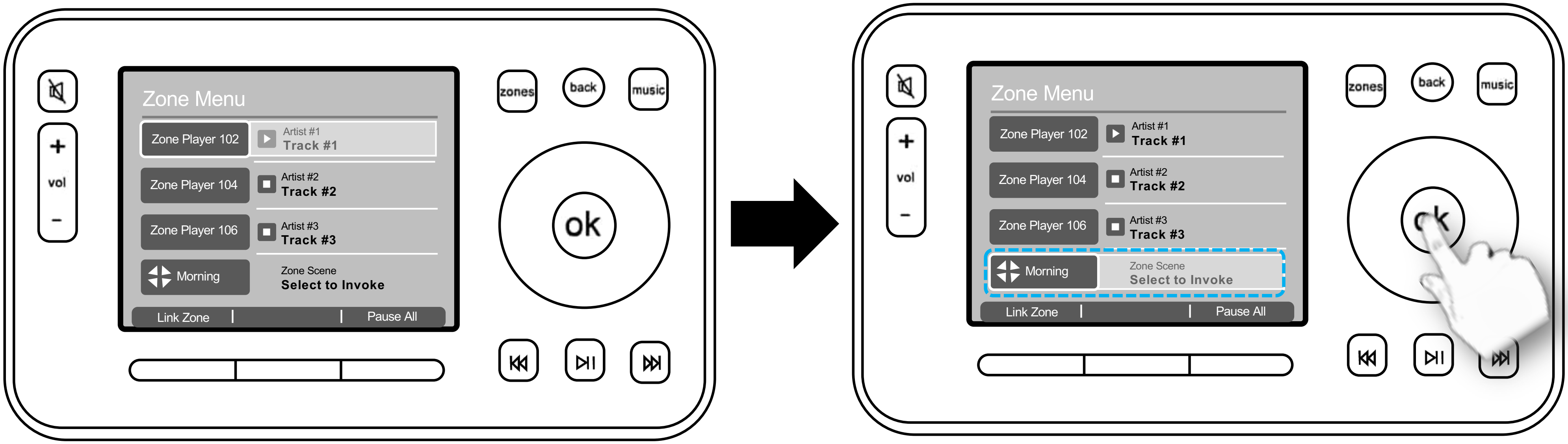

104
Zone Player
106
Zone Player
10
Zone Player
108
Internet
zones
back
music
+
vol
-
ok
Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All

Play message

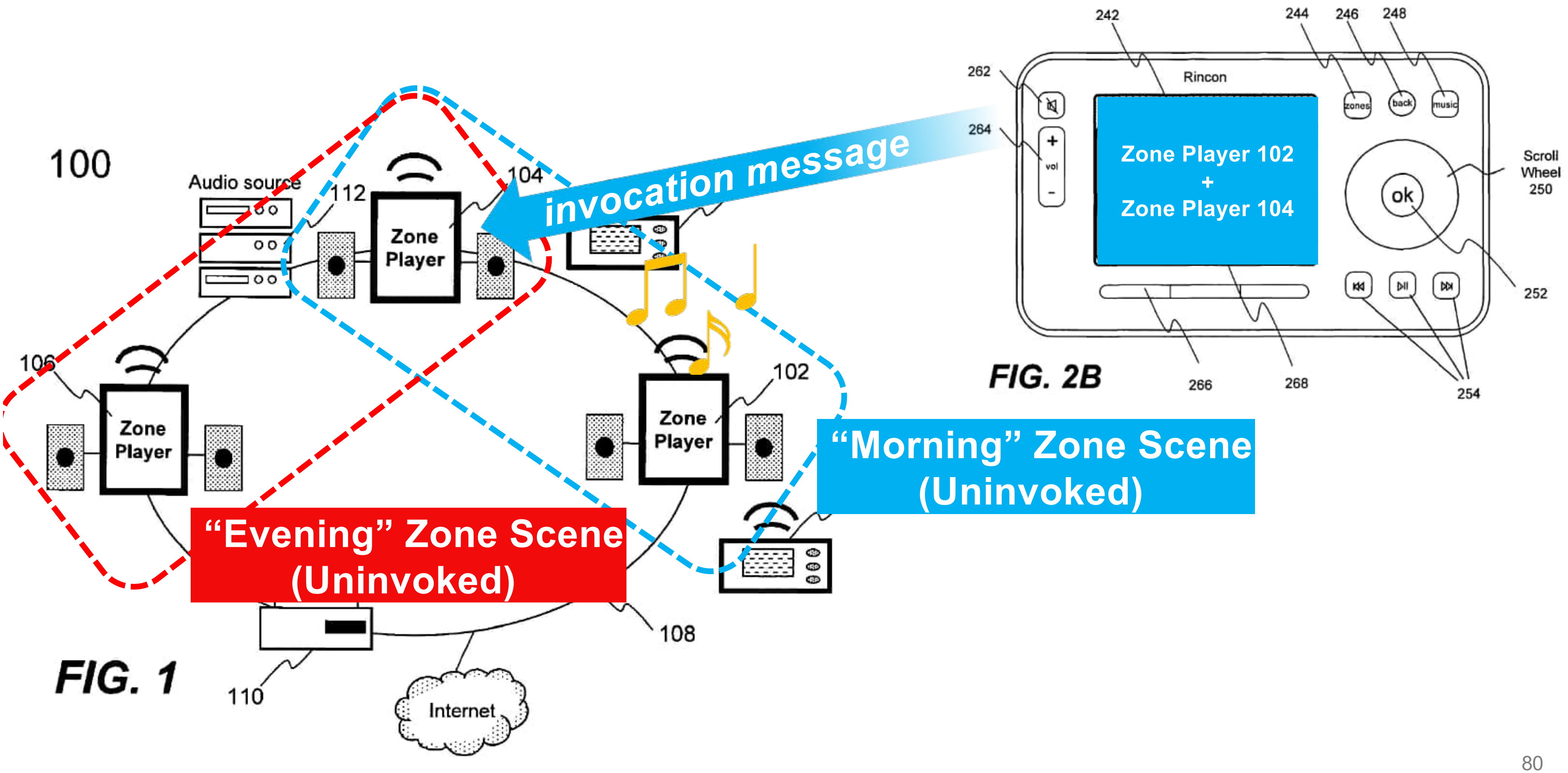
"Evening" Zone Scene (Uninvoked)

"Morning" Zone Scene (Uninvoked)

Sonos's "Zone Scene" Grouping – Can be Invoked Later on Demand


Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
vol
zones
back
music
ok
Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
vol
zones
back
music
ok

Sonos's "Zone Scene" Grouping – Can be Invoked Later on Demand


100
Audio source
112
104
Zone Player
106
Zone Player
102
Zone Player
108
110
Internet
FIG. 1
242
244
246
248
262
264
Rincon
zones
back
music
+
vol
-
ok
Scroll Wheel 250
252
266
268
254
FIG. 2B

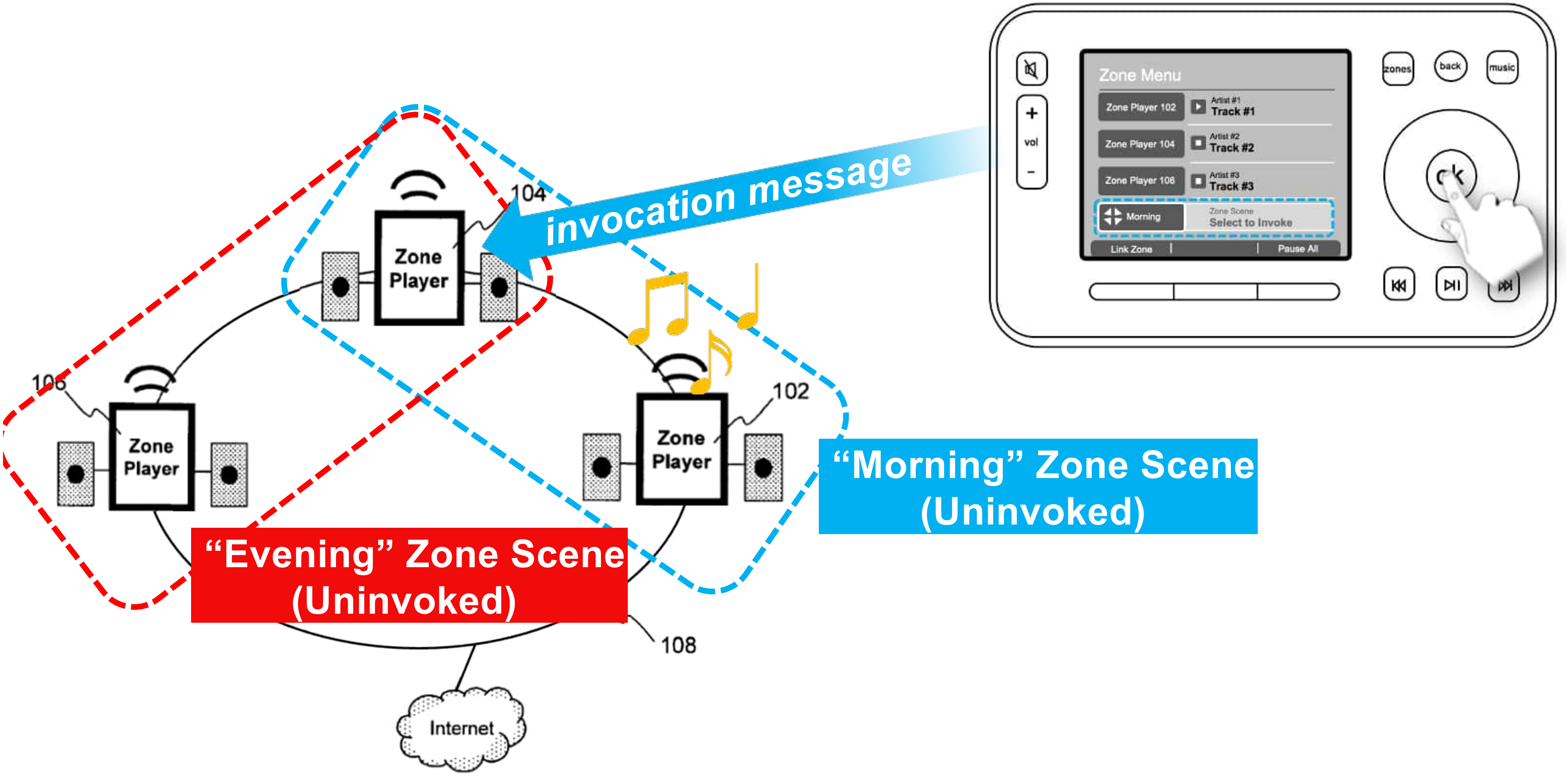
invocation message

Zone Player 102
+
Zone Player 104

"Morning" Zone Scene
(Uninvoked)

"Evening" Zone Scene
(Uninvoked)

Sonos's "Zone Scene" Grouping – Can be Invoked Later on Demand

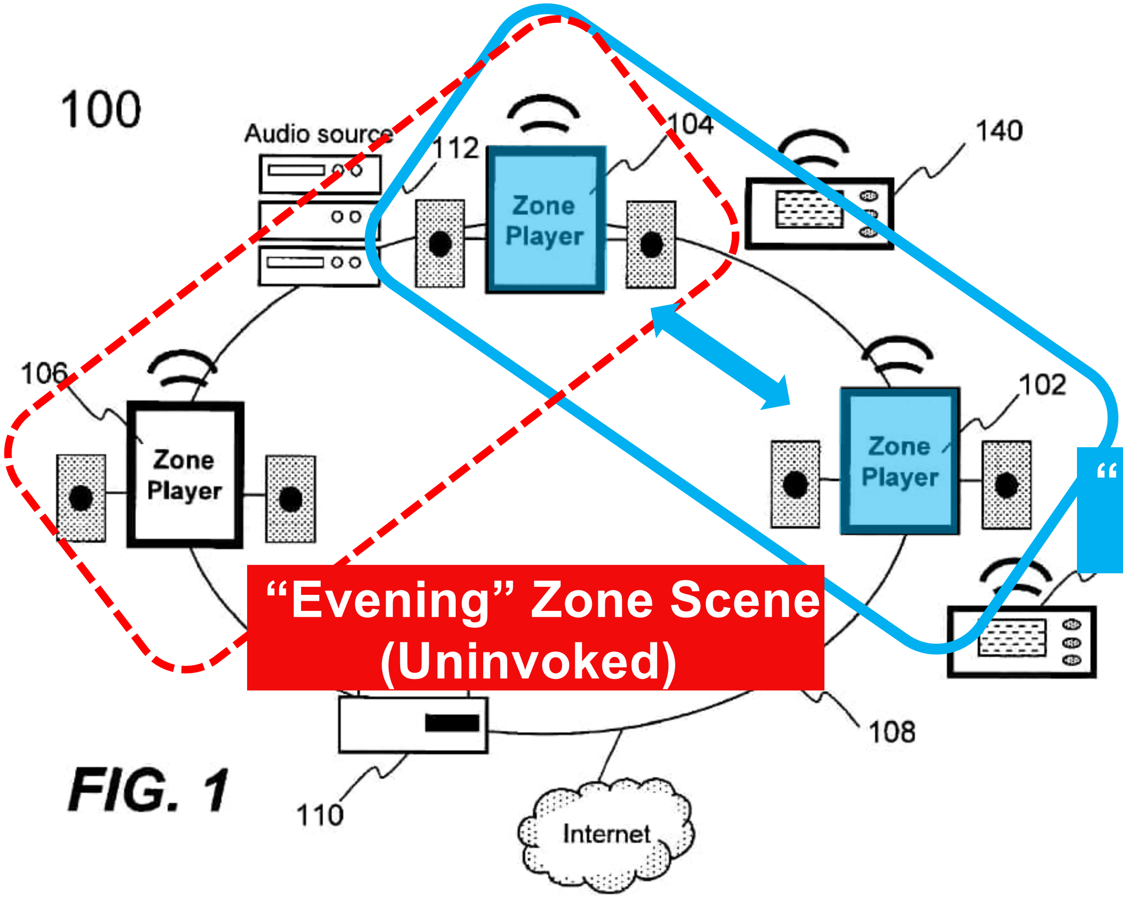


Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
zones
back
music
vol
+
-
ok
invocation message
104
Zone Player
106
Zone Player
102
Zone Player
108
Internet

"Morning" Zone Scene (Uninvoked)

"Evening" Zone Scene (Uninvoked)

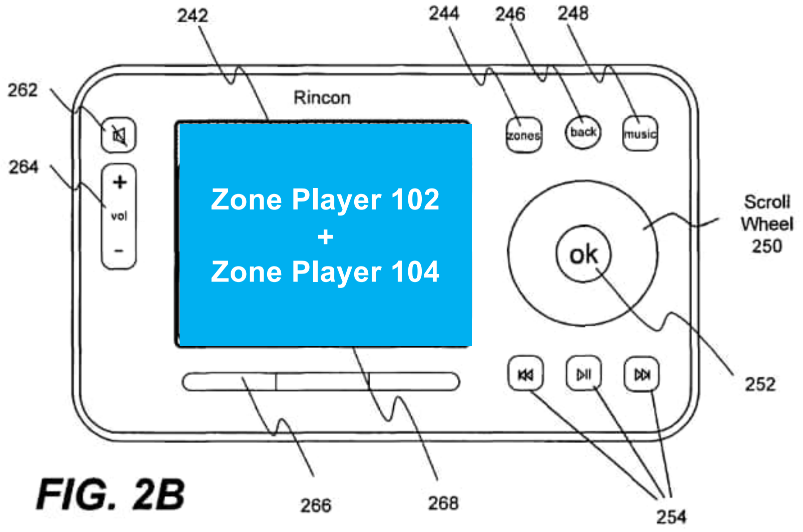
Sonos's "Zone Scene" Grouping – Can be Invoked Later on Demand


100
Audio source
112
Zone Player
104
140
106
Zone Player
Zone Player
102
108
110
Internet

"Evening" Zone Scene (Uninvoked)

"Morning" Zone Scene (Invoked)

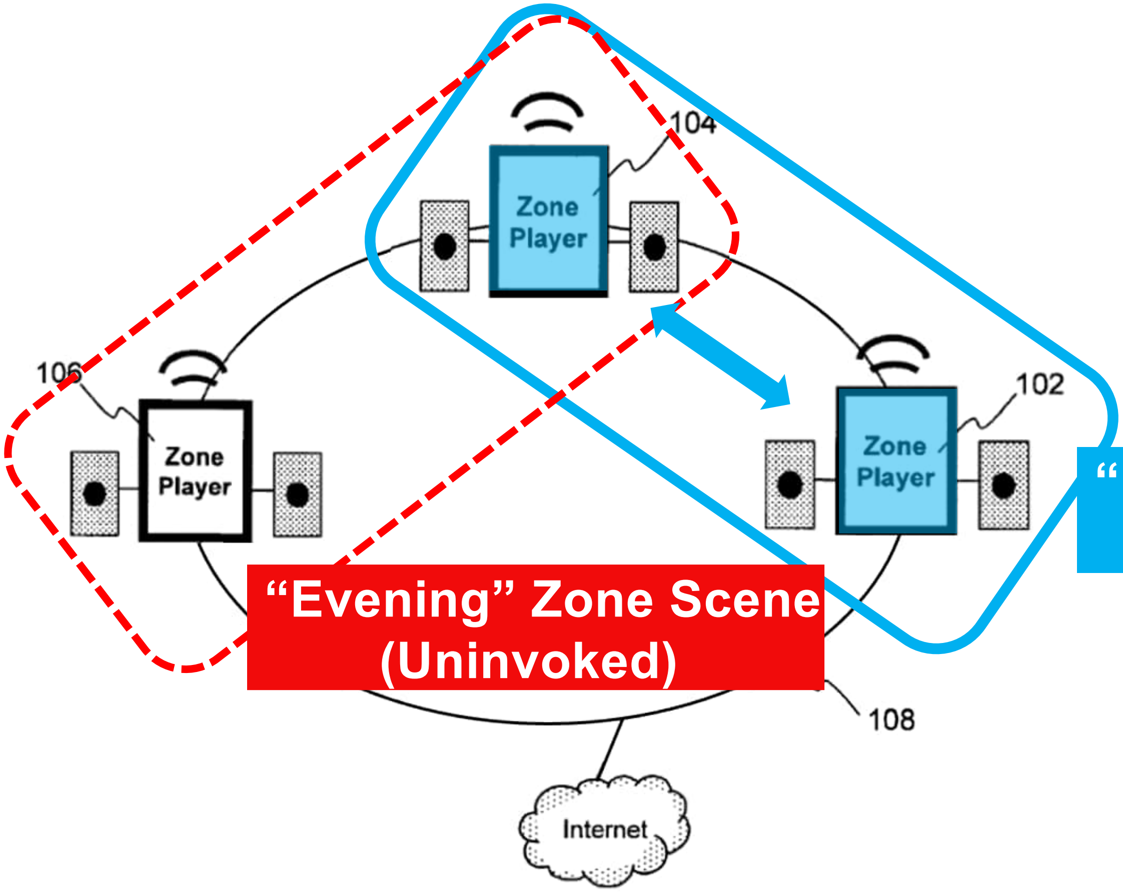
FIG. 1


242
244
246
248
262
264
Rincon
zones
back
music
+
vol
-
ok
Scroll Wheel 250
252
254
266
268

Zone Player 102 + Zone Player 104

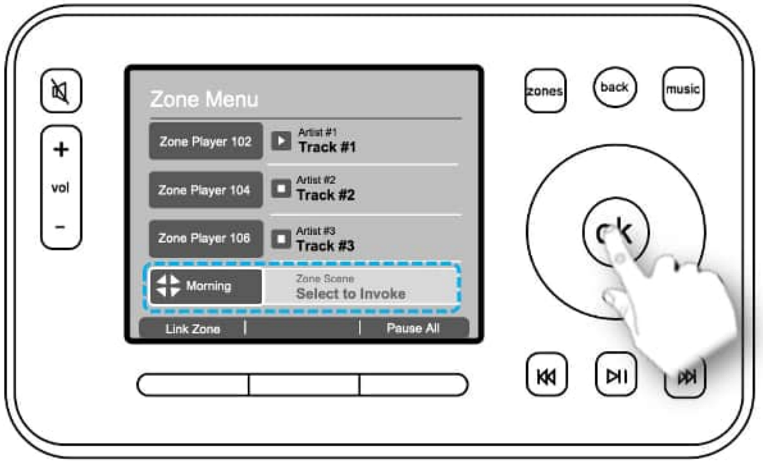
FIG. 2B

Sonos's "Zone Scene" Grouping – Can be Invoked Later on Demand

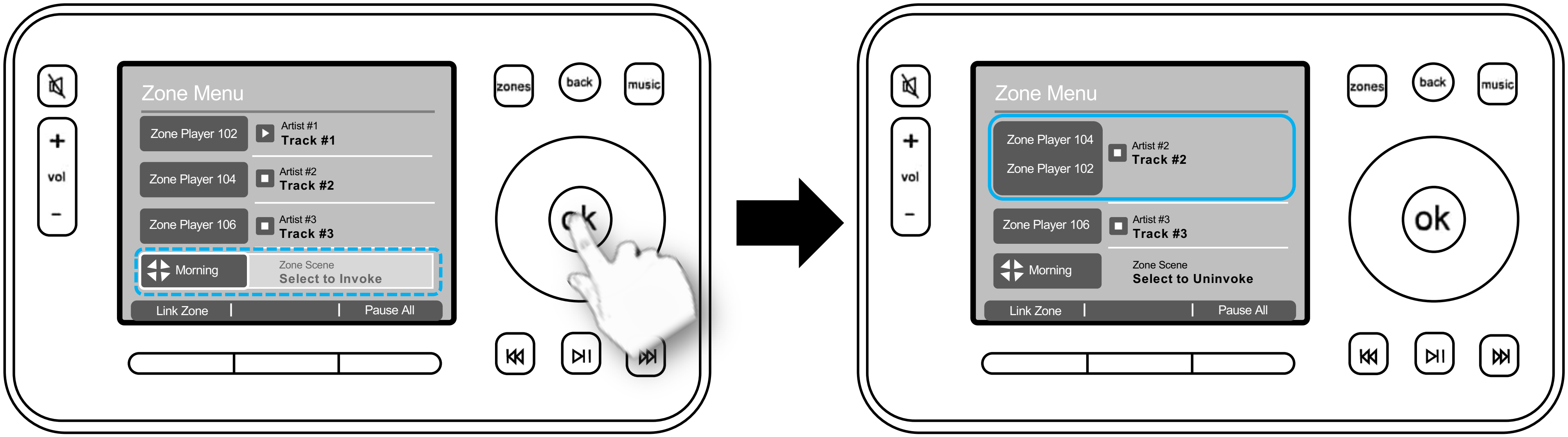

104
Zone Player
106
Zone Player
102
Zone Player
108
Internet

"Evening" Zone Scene (Uninvoked)

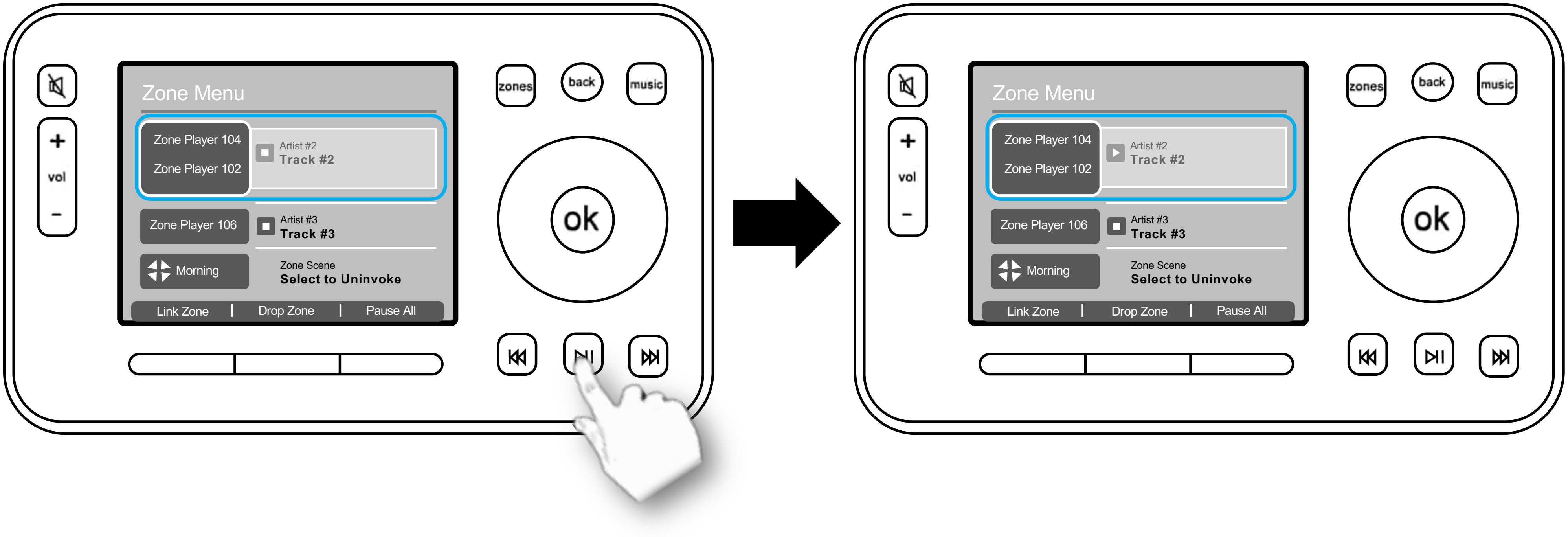
"Morning" Zone Scene (Invoked)


vol
+
-
Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
zones
back
music
ok

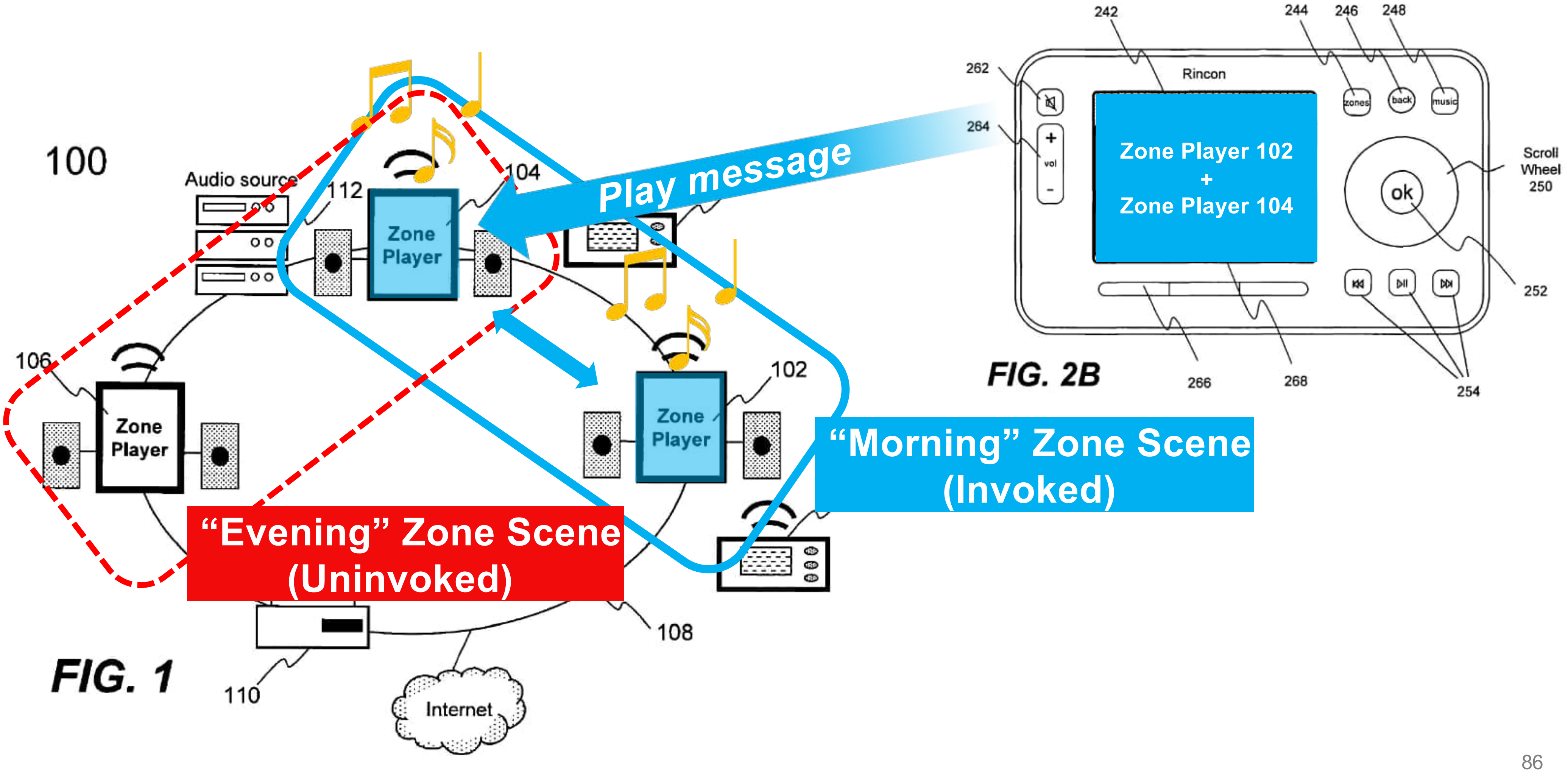
Sonos's "Zone Scene" Grouping – Can be Invoked Later on Demand


zones
back
music
+
vol
–
Zone Menu
Zone Player 102
Artist #1
Track #1
Zone Player 104
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
ok
zones
back
music
+
vol
–
Zone Menu
Zone Player 104
Zone Player 102
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Uninvoke
Link Zone
Pause All
ok

Sonos's "Zone Scene" Grouping – Initiating Playback After Invocation


Zone Menu
Zone Player 104
Zone Player 102
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Uninvoke
Link Zone
Drop Zone
Pause All
vol
zones
back
music
ok
Zone Menu
Zone Player 104
Zone Player 102
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Uninvoke
Link Zone
Drop Zone
Pause All
vol
zones
back
music
ok

Sonos's "Zone Scene" Grouping – Initiating Playback After Invocation


100
Audio source
112
104
Zone Player
106
Zone Player
102
Zone Player
108
110
Internet
FIG. 1
242
244
246
248
262
264
Rincon
zones
back
music
+
vol
-
ok
Scroll Wheel 250
252
266
268
254
FIG. 2B

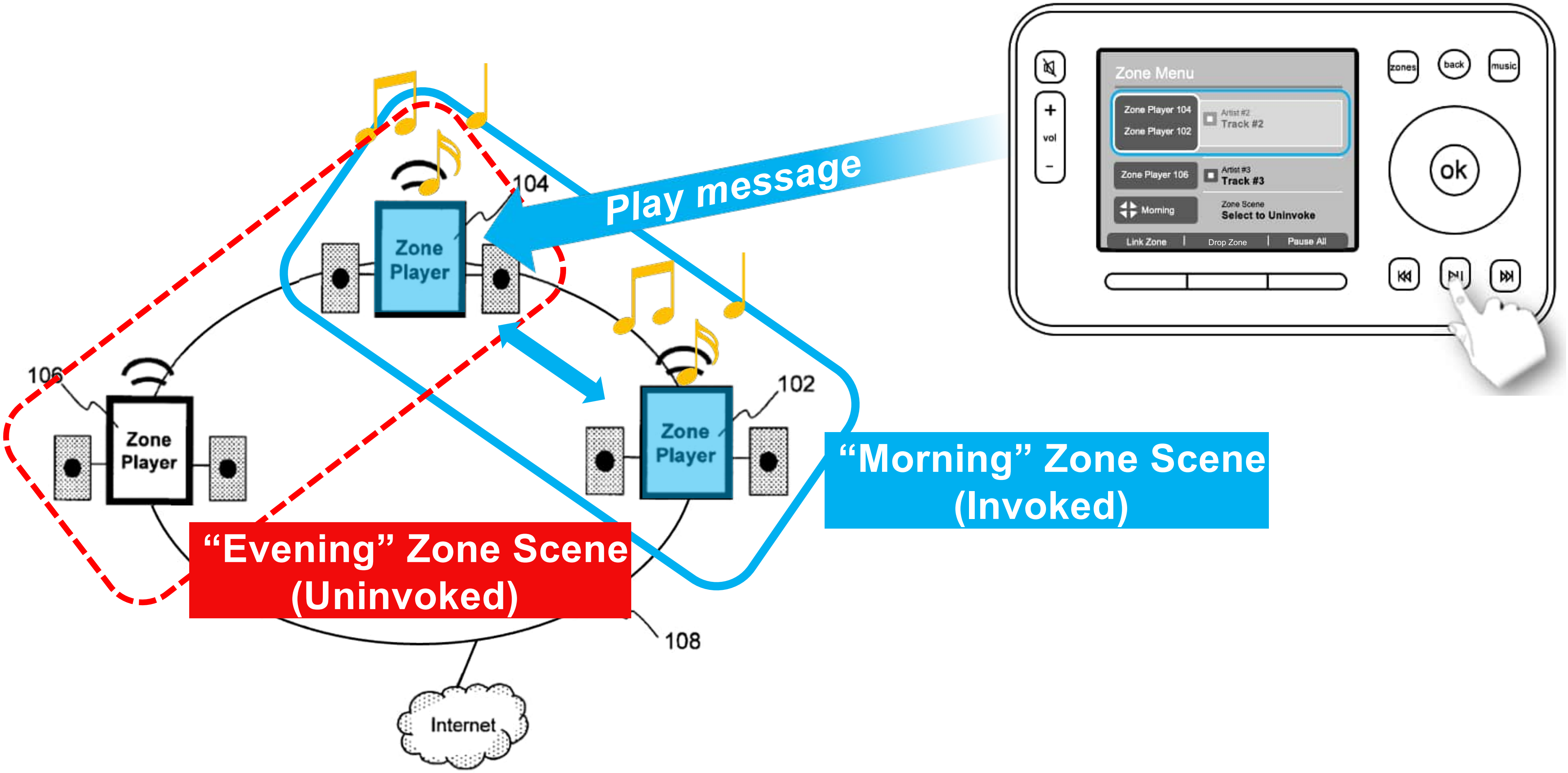
Play message

Zone Player 102
+
Zone Player 104

"Morning" Zone Scene (Invoked)

"Evening" Zone Scene (Uninvoked)

Sonos's "Zone Scene" Grouping – Initiating Playback After Invocation

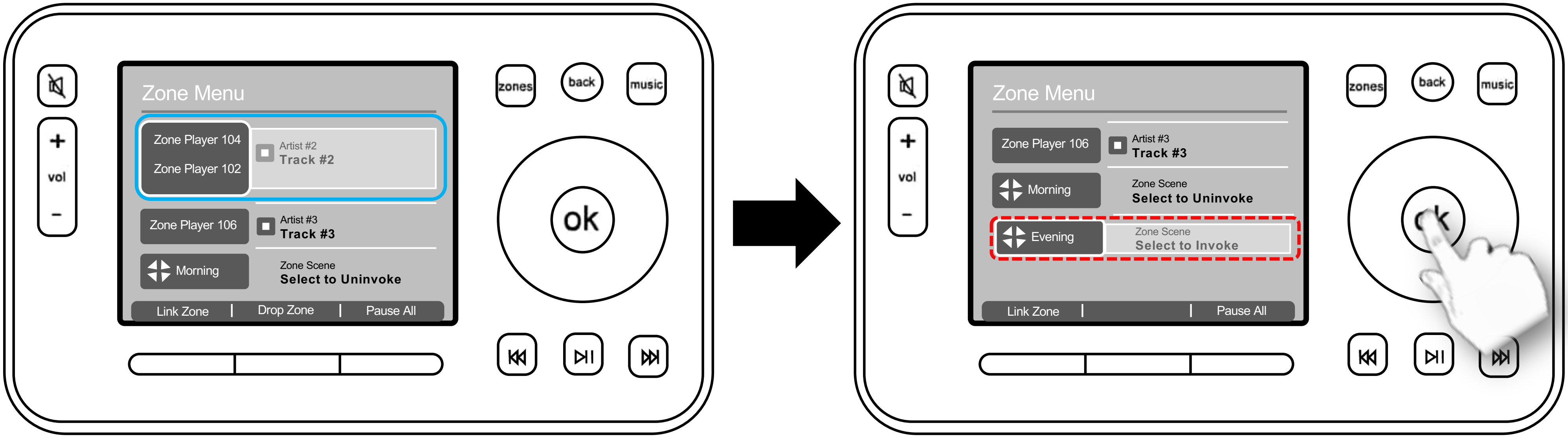

104
Zone Player
106
Zone Player
102
Zone Player
108
Internet
Zone Menu
Zone Player 104
Zone Player 102
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Uninvoke
Link Zone
Drop Zone
Pause All
vol
+
-
zones
back
music
ok

Play message

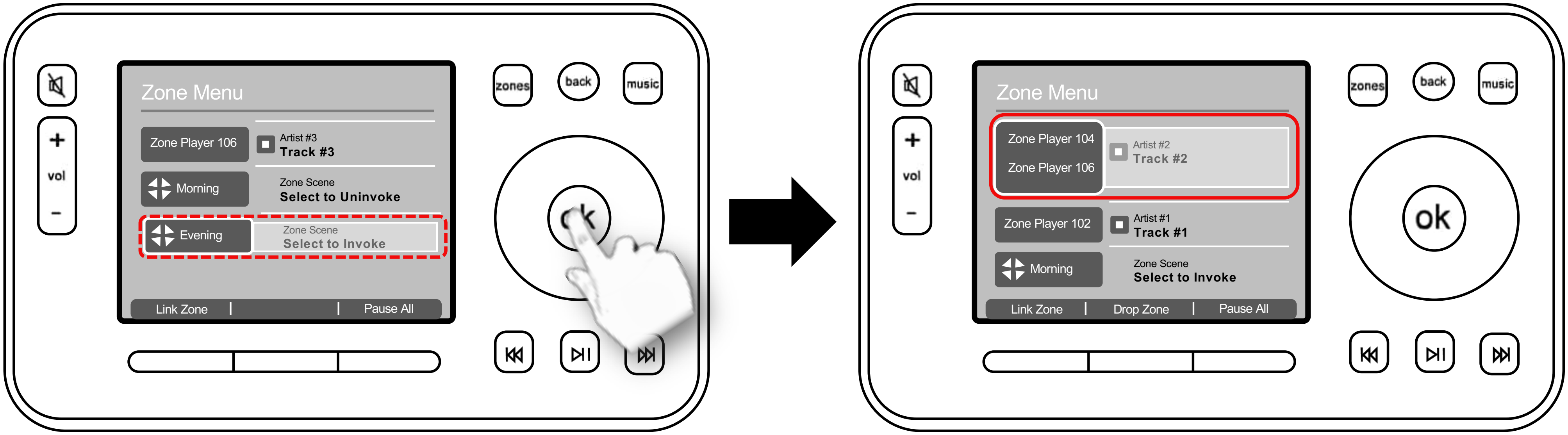
"Morning" Zone Scene (Invoked)

"Evening" Zone Scene (Uninvoked)

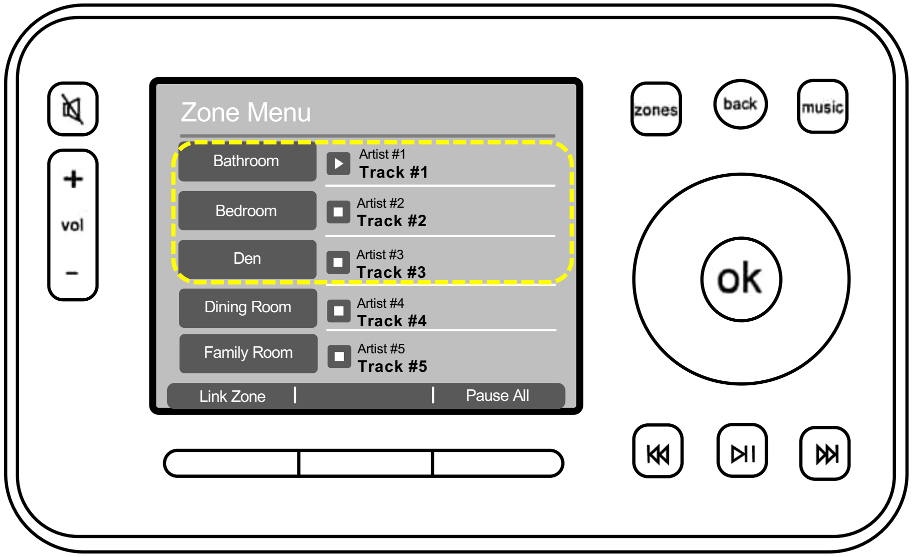
Sonos's "Zone Scene" Grouping – Can be Invoked Later on Demand


Zone Menu
Zone Player 104
Zone Player 102
Artist #2
Track #2
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Uninvoke
Link Zone
Drop Zone
Pause All
zones
back
music
vol
ok
Zone Menu
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Uninvoke
Evening
Zone Scene
Select to Invoke
Link Zone
Pause All
zones
back
music
vol
ok

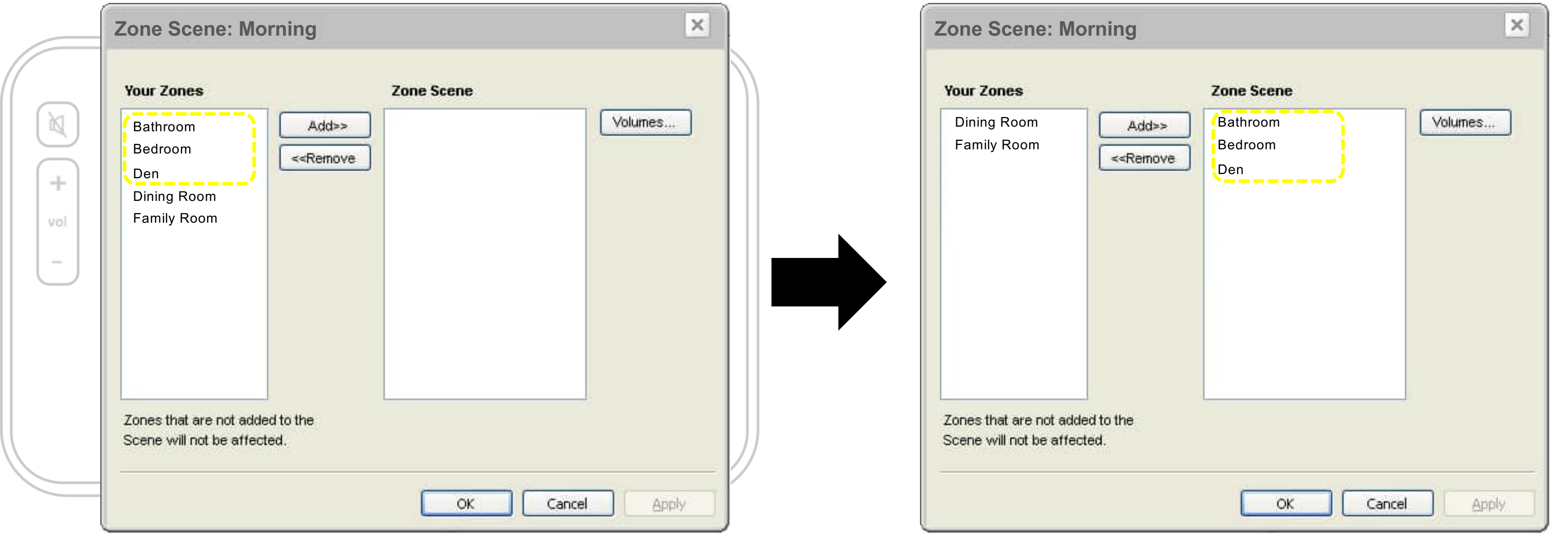
Sonos's "Zone Scene" Grouping – Can be Invoked Later on Demand


Zone Menu
Zone Player 106
Artist #3
Track #3
Morning
Zone Scene
Select to Uninvoke
Evening
Zone Scene
Select to Invoke
Link Zone
Pause All
zones
back
music
vol
ok
Zone Menu
Zone Player 104
Zone Player 106
Artist #2
Track #2
Zone Player 102
Artist #1
Track #1
Morning
Zone Scene
Select to Invoke
Link Zone
Drop Zone
Pause All
zones
back
music
vol
ok

Sonos's "Zone Scene" Grouping – Groups Saved for Future Use


Zone Menu
Bathroom
Artist #1
Track #1
Bedroom
Artist #2
Track #2
Den
Artist #3
Track #3
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Link Zone
Pause All
vol
zones
back
music
ok

Sonos's "Zone Scene" Grouping – Groups Saved for Future Use



Zone Scene: Morning

Your Zones
Bathroom
Bedroom
Den
Dining Room
Family Room

Zone Scene

Zones that are not added to the Scene will not be affected.

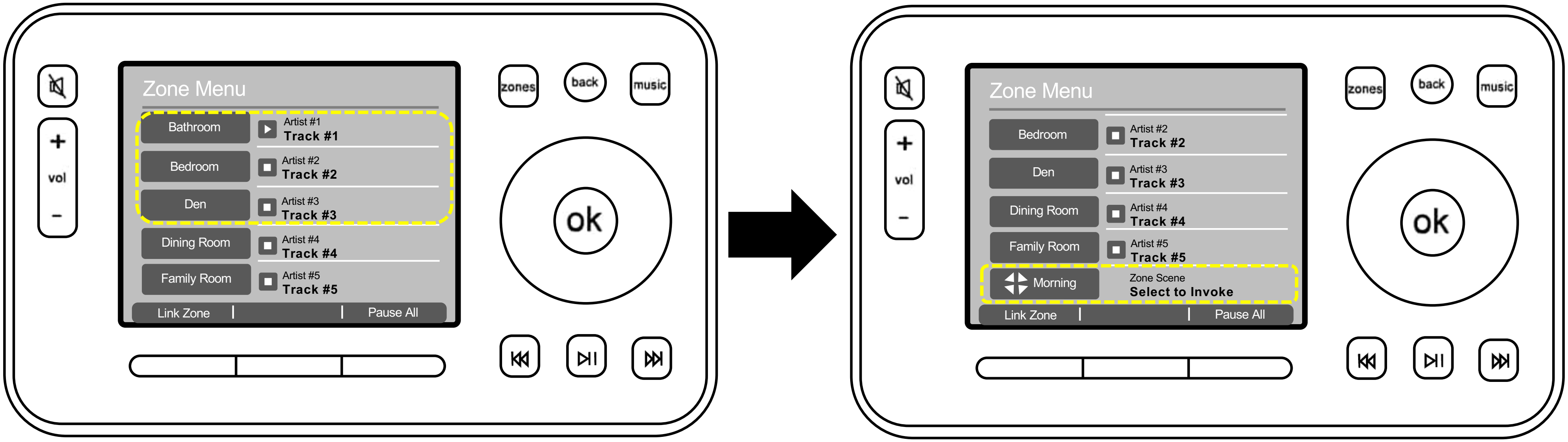
Zone Scene: Morning

Your Zones
Dining Room
Family Room

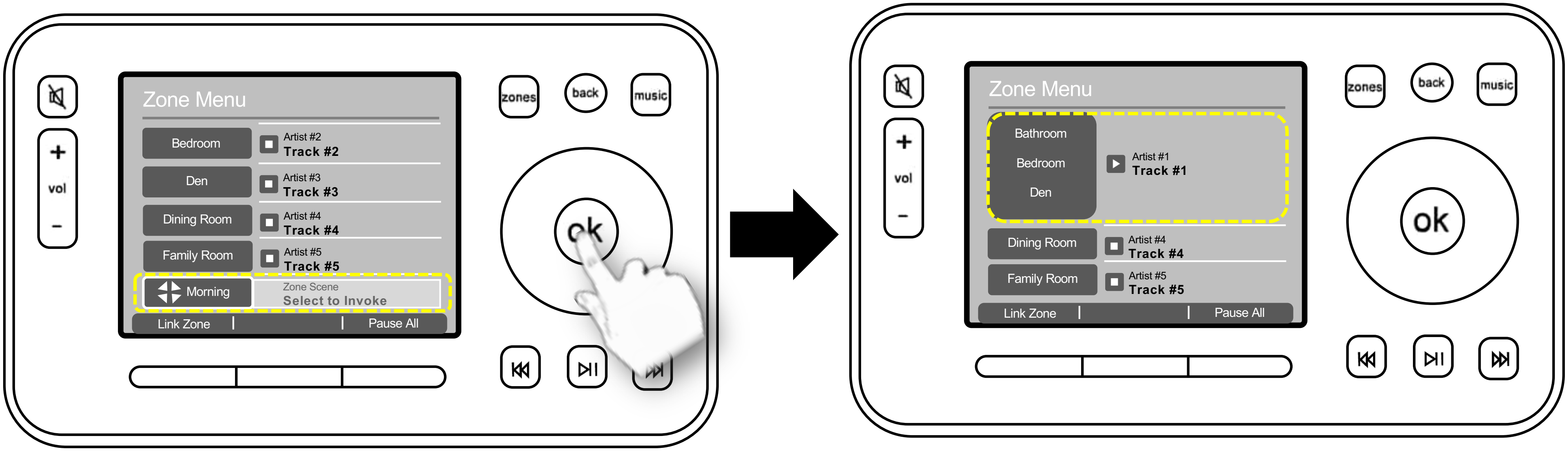
Zone Scene
Bathroom
Bedroom
Den

Zones that are not added to the Scene will not be affected.

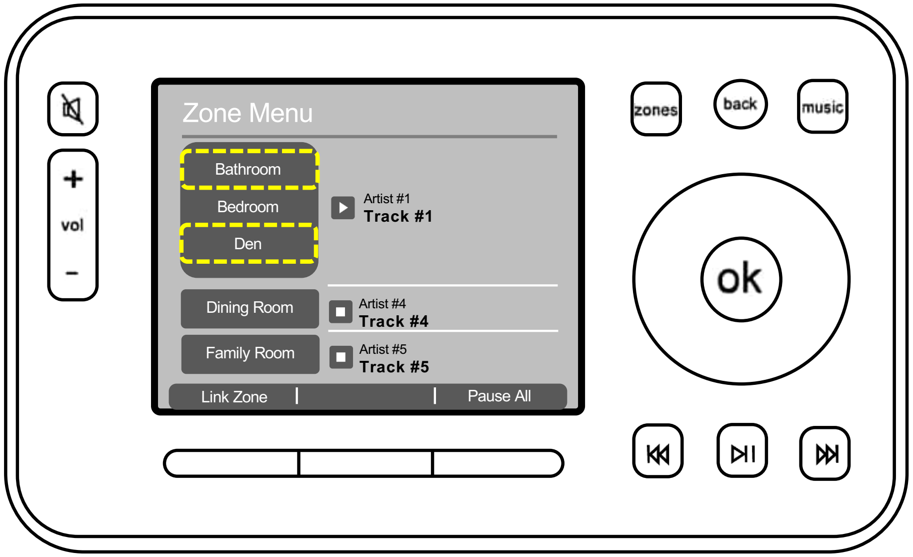
Sonos's "Zone Scene" Grouping – Groups Saved for Future Use


Zone Menu
Bathroom
Artist #1
Track #1
Bedroom
Artist #2
Track #2
Den
Artist #3
Track #3
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Link Zone
Pause All
zones
back
music
vol
ok
Zone Menu
Bedroom
Artist #2
Track #2
Den
Artist #3
Track #3
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
zones
back
music
vol
ok

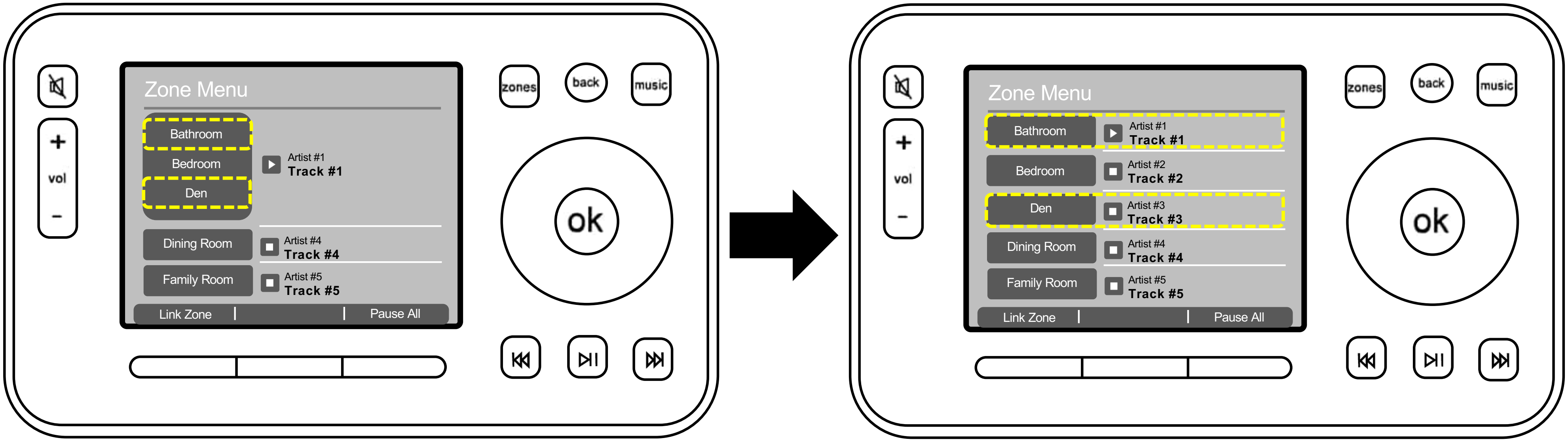
Sonos's "Zone Scene" Grouping – Groups Saved for Future Use


Zone Menu
Bedroom
Artist #2
Track #2
Den
Artist #3
Track #3
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
vol
zones
back
music
ok
Zone Menu
Bathroom
Bedroom
Den
Artist #1
Track #1
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Link Zone
Pause All
vol
zones
back
music
ok

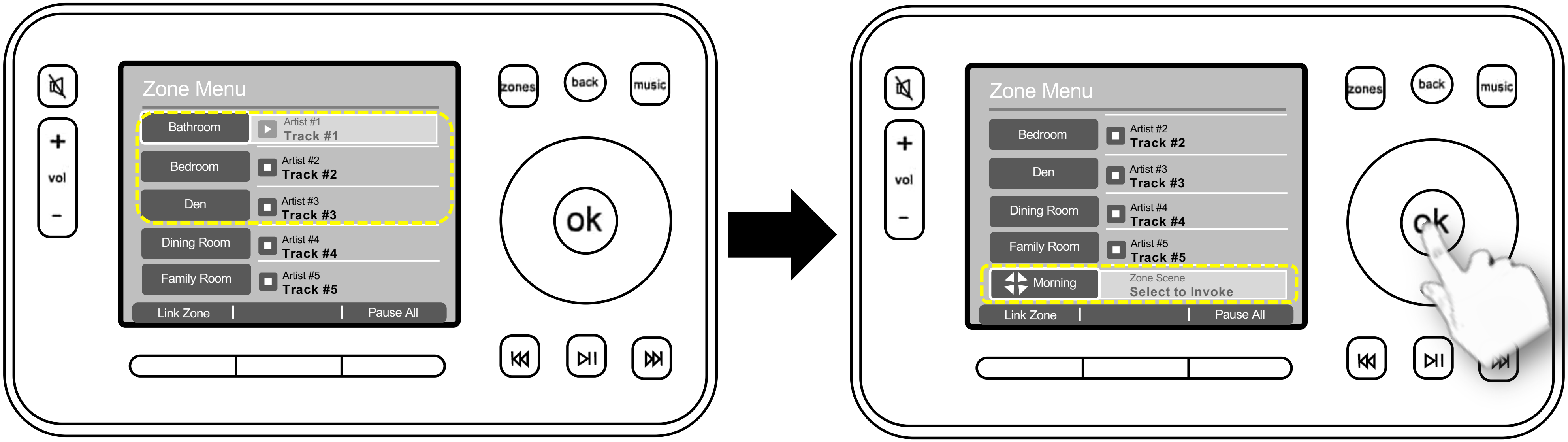
Sonos's "Zone Scene" Grouping – Groups Saved for Future Use


Zone Menu
Bathroom
Bedroom
Den
Artist #1
Track #1
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Link Zone
Pause All
vol
zones
back
music
ok

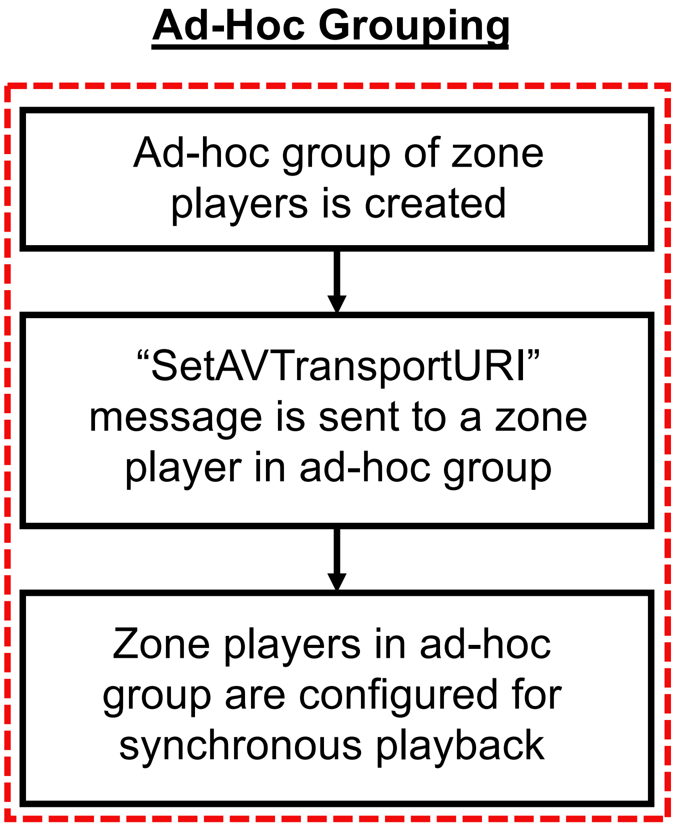
Sonos's "Zone Scene" Grouping – Groups Saved for Future Use


Zone Menu
Bathroom
Bedroom
Den
Artist #1
Track #1
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Link Zone
Pause All
vol
zones
back
music
ok
Zone Menu
Bathroom
Artist #1
Track #1
Bedroom
Artist #2
Track #2
Den
Artist #3
Track #3
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Link Zone
Pause All
vol
zones
back
music
ok

Sonos's "Zone Scene" Grouping – Groups Saved for Future Use


Zone Menu
Bathroom
Artist #1
Track #1
Bedroom
Artist #2
Track #2
Den
Artist #3
Track #3
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Link Zone
Pause All
zones
back
music
vol
ok
Zone Menu
Bedroom
Artist #2
Track #2
Den
Artist #3
Track #3
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Morning
Zone Scene
Select to Invoke
Link Zone
Pause All
zones
back
music
vol
ok

Sonos's 2005 Ad-Hoc Grouping ≠ Sonos's Zone Scene Grouping

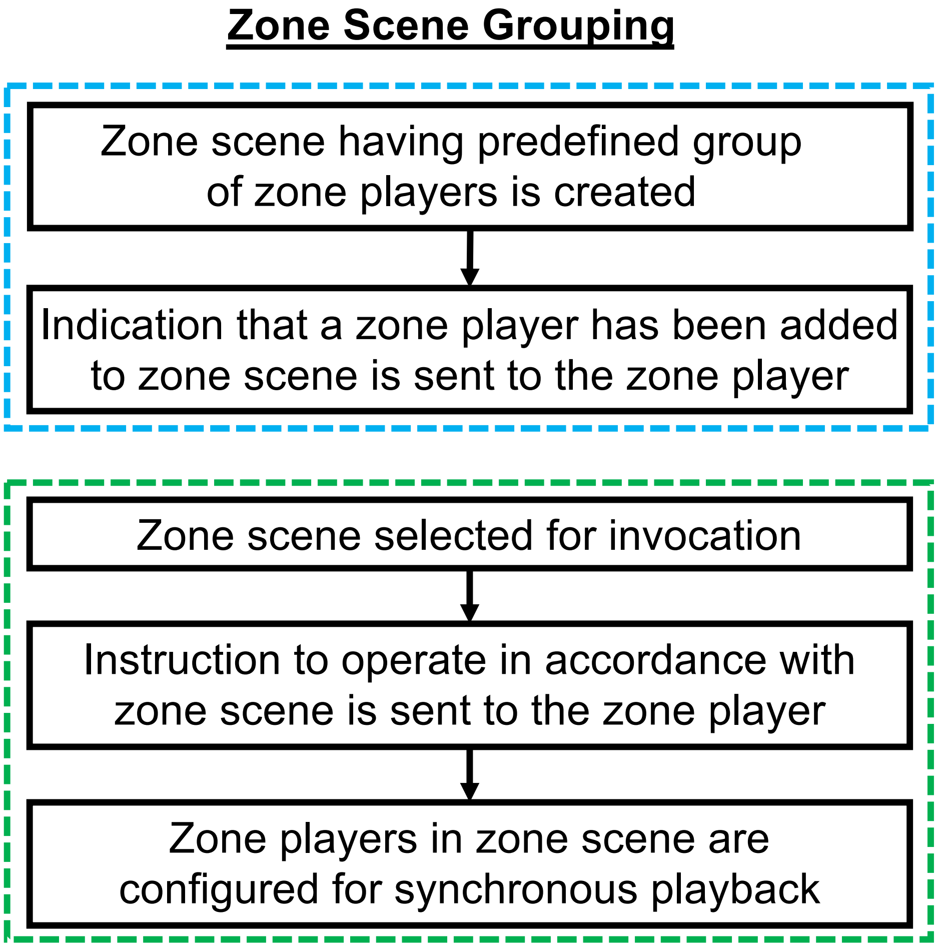


Ad-Hoc Grouping

Ad-hoc group of zone players is created

"SetAVTransportURI" message is sent to a zone player in ad-hoc group

Zone players in ad-hoc group are configured for synchronous playback



Zone Scene Grouping

Zone scene having predefined group of zone players is created

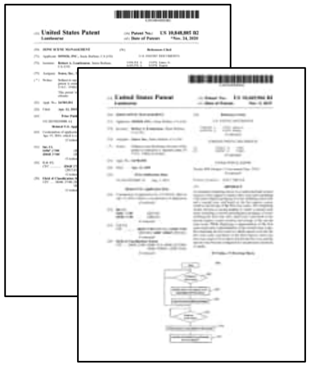
Indication that a zone player has been added to zone scene is sent to the zone player

Zone scene selected for invocation

Instruction to operate in accordance with zone scene is sent to the zone player

Zone players in zone scene are configured for synchronous playback

Methodology – Validity of ’885 and ’966 Patents



Sonos Patent Documents

- ’885 and ’966 Patents
- File Histories
- Claim Construction Material

Prior Art Documentation

- Customer-Facing Literature
- Internal Documents
- Source Code

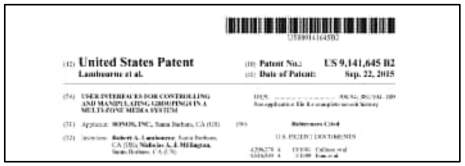
Sworn Testimony

- Robert Lambourne, Sonos UX Director and inventor of ’885 and ’966 Patents
- Nick Millington, Sonos Chief Innovation Officer

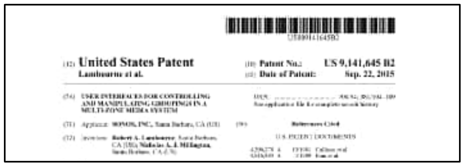
Physical Devices

- Sonos’s System
- Squeezebox

Assignment – Validity of ’885 and ’966 Patents

Asserted Claims	Alleged Prior Art	Invalid?
Claim 1 of US 10,848,885 (’885 Patent) Claims 1, 2, 4, 6, 8, 9, 10, 12, 14, and 16 of US 10,469,966 (’966 Patent)	  (12) **United States Patent** **Lambourne et al.** (10) **Patent No.: US 9,141,645 B2** (45) **Date of Patent: Sep. 22, 2015** (54) USER INTERFACES FOR CONTROLLING AND MANIPULATING GROUPINGS IN A MULTI-ZONE MEDIA SYSTEM (71) Applicant: SONOS, INC., Santa Barbara, CA (US) (72) Inventors: **Robert A. Lambourne**, Santa Barbara, CA (US); **Nicholas A. J. Millington**, Santa Barbara, CA (US) (56) References Cited U.S. PATENT DOCUMENTS	? ? ? ?

Assignment – Validity of ’885 and ’966 Patents

Asserted Claims	Alleged Prior Art	Invalid?
Claim 1 of US 10,848,885 (’885 Patent) Claims 1, 2, 4, 6, 8, 9, 10, 12, 14, and 16 of US 10,469,966 (’966 Patent)		✗
		✗
		✗
	 (12) United States Patent Lambourne et al. (10) Patent No.: US 9,141,645 B2 (45) Date of Patent: Sep. 22, 2015 (54) USER INTERFACES FOR CONTROLLING AND MANIPULATING GROUPINGS IN A MULTI-ZONE MEDIA SYSTEM (71) Applicant: SONOS, INC., Santa Barbara, CA (US) (72) Inventors: Robert A. Lambourne, Santa Barbara, CA (US); Nicholas A. J. Millington, Santa Barbara, CA (US) (56) References Cited U.S. PATENT DOCUMENTS	✗

2005 Sonos System

’885 Patent Claim 1	✗
’966 Patent Claim 1	✗
’966 Patent Claim 2	✗
’966 Patent Claim 4	✗
’966 Patent Claim 6	✗
’966 Patent Claim 8	✗
’966 Patent Claim 9	✗
’966 Patent Claim 10	✗
’966 Patent Claim 12	✗
’966 Patent Claim 14	✗
’966 Patent Claim 16	✗

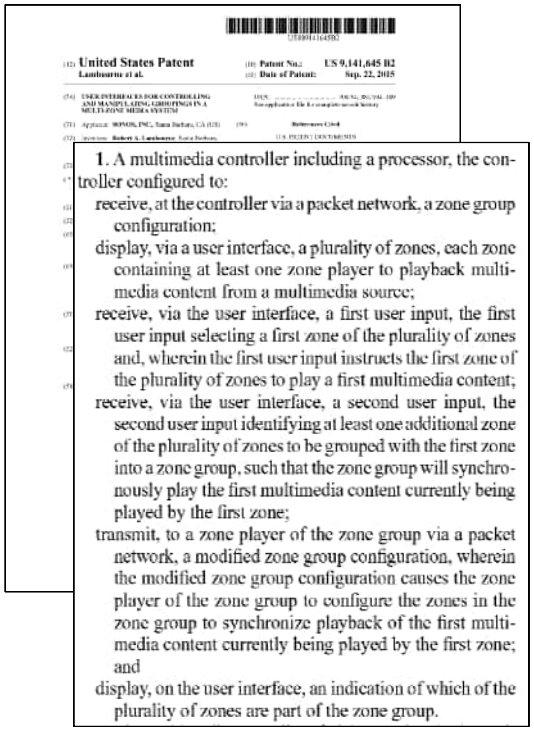
Squeezebox

’885 Patent Claim 1	✗
’966 Patent Claim 1	✗
’966 Patent Claim 2	✗
’966 Patent Claim 4	✗
’966 Patent Claim 6	✗
’966 Patent Claim 8	✗
’966 Patent Claim 9	✗
’966 Patent Claim 10	✗
’966 Patent Claim 12	✗
’966 Patent Claim 14	✗
’966 Patent Claim 16	✗

Bose Lifestyle 50 System

’885 Patent Claim 1	✗
’966 Patent Claim 1	✗
’966 Patent Claim 2	✗
’966 Patent Claim 4	✗
’966 Patent Claim 6	✗
’966 Patent Claim 8	✗
’966 Patent Claim 9	✗
’966 Patent Claim 10	✗
’966 Patent Claim 12	✗
’966 Patent Claim 14	✗
’966 Patent Claim 16	✗

Sonos's '645 Patent, Claim 1



United States Patent
Lambourne et al.

Patent No.: US 9,141,645 B2
Date of Patent: Sep. 22, 2015

1. A multimedia controller including a processor, the controller configured to:

receive, at the controller via a packet network, a zone group configuration;

display, via a user interface, a plurality of zones, each zone containing at least one zone player to playback multimedia content from a multimedia source;

receive, via the user interface, a first user input, the first user input selecting a first zone of the plurality of zones and, wherein the first user input instructs the first zone of the plurality of zones to play a first multimedia content;

receive, via the user interface, a second user input, the second user input identifying at least one additional zone of the plurality of zones to be grouped with the first zone into a zone group, such that the zone group will synchronously play the first multimedia content currently being played by the first zone;

transmit, to a zone player of the zone group via a packet network, a modified zone group configuration, wherein the modified zone group configuration causes the zone player of the zone group to configure the zones in the zone group to synchronize playback of the first multimedia content currently being played by the first zone; and

display, on the user interface, an indication of which of the plurality of zones are part of the zone group.

'885 Patent Claim 1	✗
'966 Patent Claim 1	✗
'966 Patent Claim 2	✗
'966 Patent Claim 4	✗
'966 Patent Claim 6	✗
'966 Patent Claim 8	✗
'966 Patent Claim 9	✗
'966 Patent Claim 10	✗
'966 Patent Claim 12	✗
'966 Patent Claim 14	✗
'966 Patent Claim 16	✗

Assignment – Validity of ’885 and ’966 Patents

Asserted Claims	Google’s References	Invalid?
’885 Patent Asserted Claim 1 ’966 Patent Asserted Claims 1, 2, 4, 6, 8-10, 12, 14, and 16	**2005 Sonos System** + POSITA + Sonos Forums + Nourse + Millington + Squeezebox + Rajapakse + Lindemann + Crestron + Yamaha DME	✗
	Squeezebox + POSITA + Sonos Forums + Millington + Nourse + Rajapakse + Lindemann	✗
	Bose Lifestyle + POSITA + Nourse + Rajapakse + Millington	✗

Claim 1 of ’885 Patent

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

> **[1.6]** (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
>
> **[1.7]** (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Claim 1 of ’885 Patent

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

EXHIBIT A - FILED UNDER SEAL

Claim 1 of ’885 Patent

✗	**[1.0]** A first zone player comprising:
	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Claim 1 of ’885 Patent

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Claim 1 of ’885 Patent

	[1.0] A first zone player comprising:
✗	**[1.1]** a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

EXHIBIT A - FILED UNDER SEAL

Claim 1 of ’885 Patent

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Claim 1 of ’885 Patent

	[1.0] A first zone player comprising:
	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
✗	**[1.2]** one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Claim 1 of ’885 Patent

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Claim 1 of ’885 Patent

	[1.0] A first zone player comprising:
	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
✗	**[1.3]** a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Claim 1 of ’885 Patent

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Claim 1 of '885 Patent

	[1.0] A first zone player comprising:
	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
✗	**[1.4]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Claim 1 of ’885 Patent

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Claim 1 of ’885 Patent

	[1.0] A first zone player comprising:
	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
✗	**[1.5]** while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

EXHIBIT A - FILED UNDER SEAL

Claim 1 of ’885 Patent

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

> **[1.6]** (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
>
> **[1.7]** (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Claim 1 of ’885 Patent

	[1.0] A first zone player comprising:
	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
✗	**[1.5]** while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
✗	**[1.6]** (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Claim 1 of ’885 Patent

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Claim 1 of ’885 Patent

	[1.0] A first zone player comprising:
	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
✗	**[1.5]** while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
✗	**[1.7]** (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

EXHIBIT A - FILED UNDER SEAL

Claim 1 of ’885 Patent

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Claim 1 of ’885 Patent

	[1.0] A first zone player comprising:
	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
✗	**[1.8]** after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Claim 1 of ’885 Patent

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

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[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

> **[1.6]** (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
>
> **[1.7]** (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Claim 1 of ’885 Patent

	[1.0] A first zone player comprising:
	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
✗	**[1.9]** after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

EXHIBIT A - FILED UNDER SEAL

Claim 1 of ’885 Patent

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

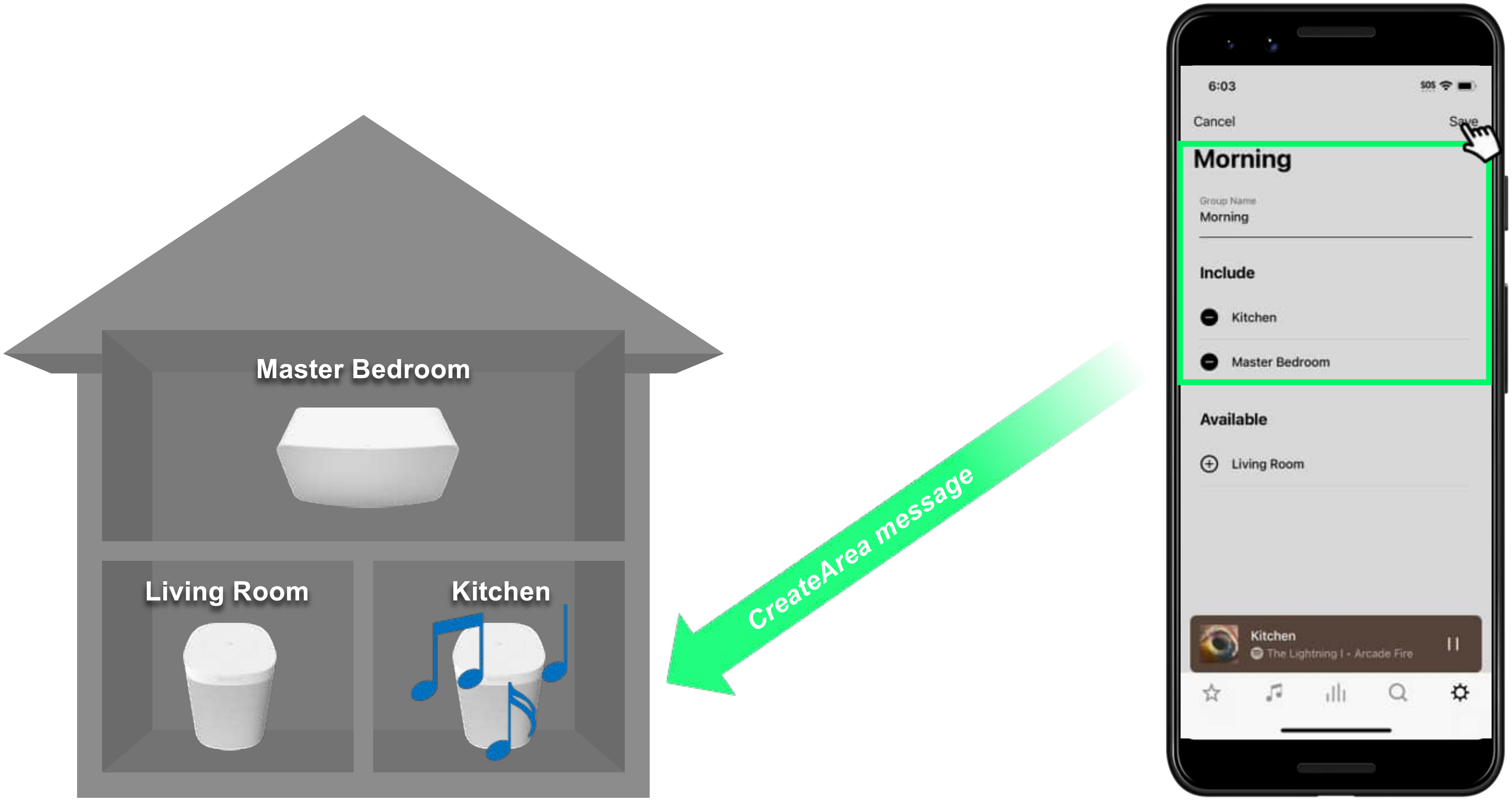
[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Claim 1 of ’885 Patent

	[1.0] A first zone player comprising:
	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
✗	**[1.10]** based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Sonos's "Zone Scene" Grouping


Master Bedroom
Living Room
Kitchen
CreateArea message
6:03
Cancel
Save

Morning

Group Name
Morning

Include

Kitchen

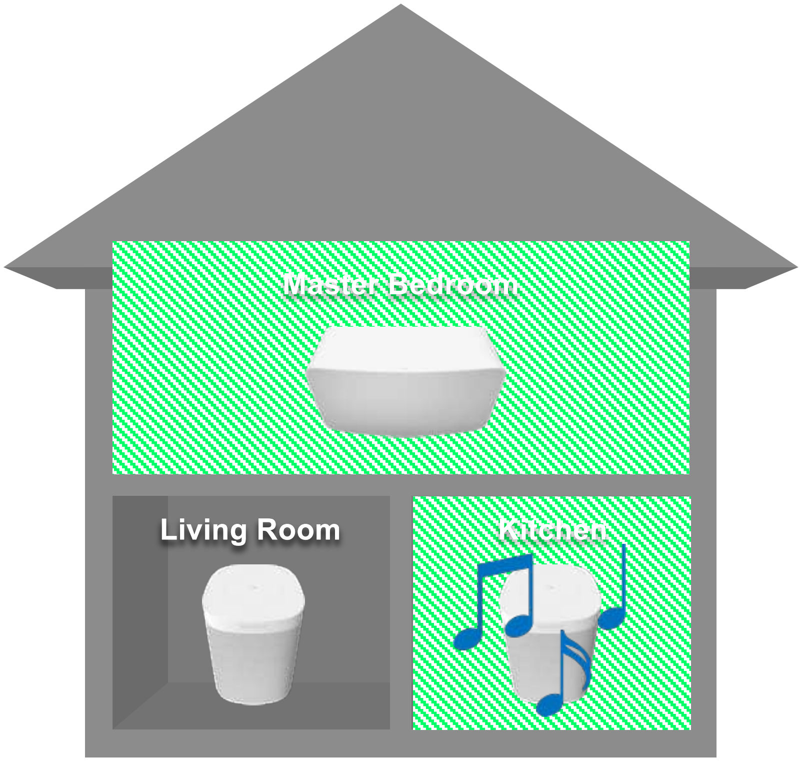
Master Bedroom

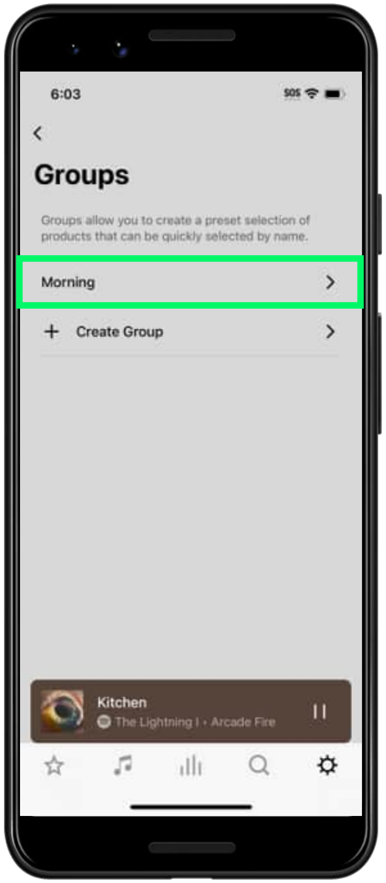
Available

Living Room

Kitchen
The Lightning I · Arcade Fire

Sonos's "Zone Scene" Grouping


Master Bedroom
Living Room
Kitchen



Groups

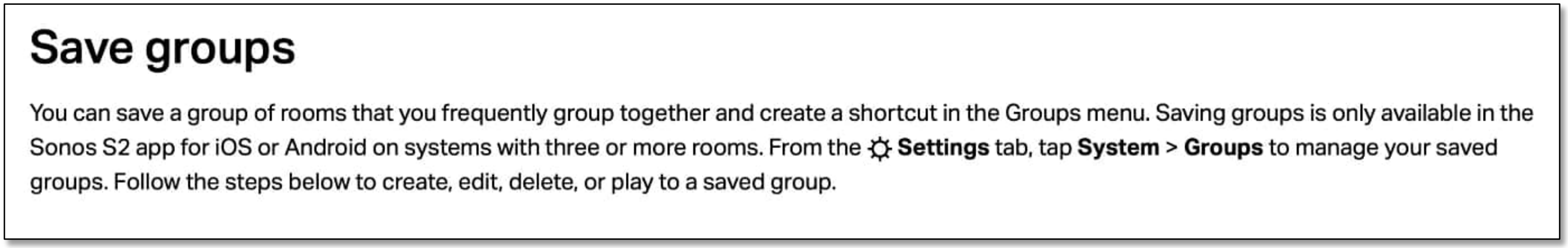
Groups allow you to create a preset selection of products that can be quickly selected by name.

Morning

+ Create Group

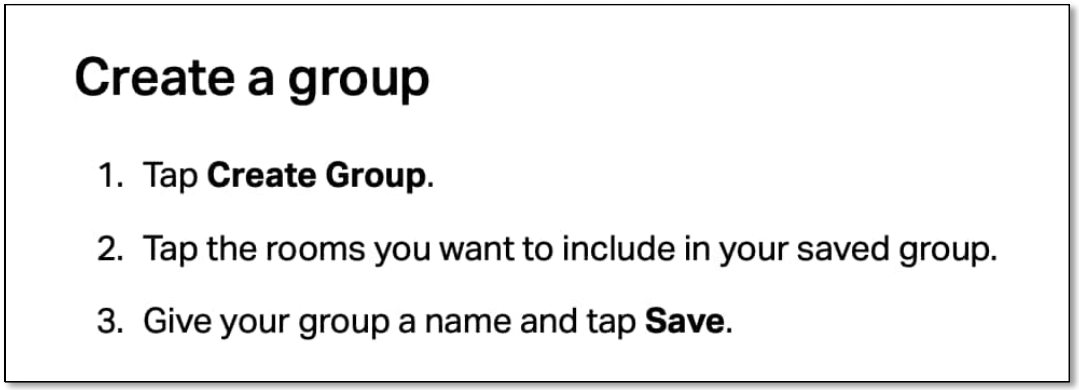
Kitchen
The Lightning I · Arcade Fire

Sonos's "Zone Scene" Grouping



Save groups

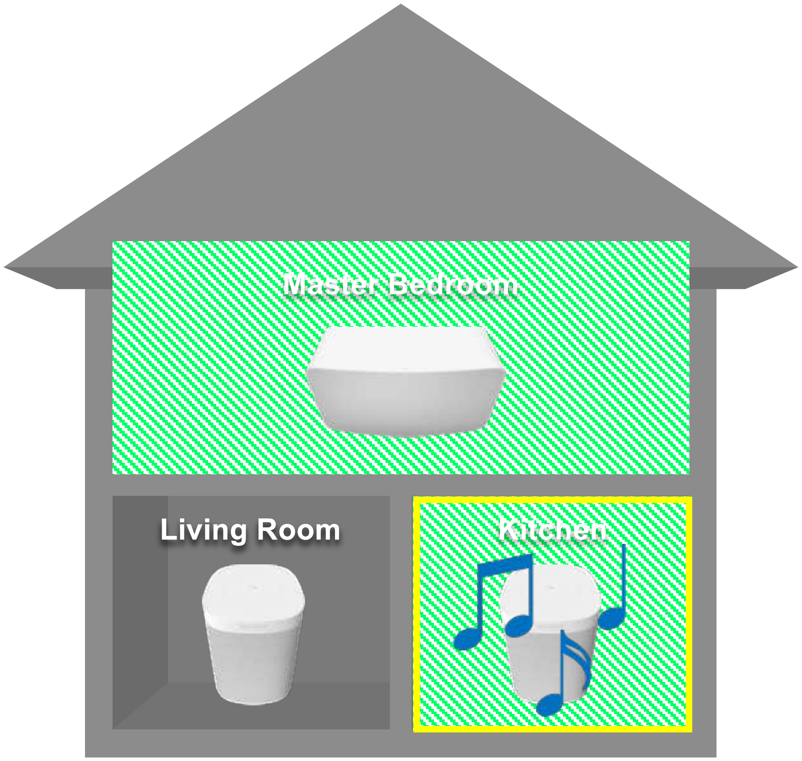
You can save a group of rooms that you frequently group together and create a shortcut in the Groups menu. Saving groups is only available in the Sonos S2 app for iOS or Android on systems with three or more rooms. From the ⚙ **Settings** tab, tap **System** > **Groups** to manage your saved groups. Follow the steps below to create, edit, delete, or play to a saved group.

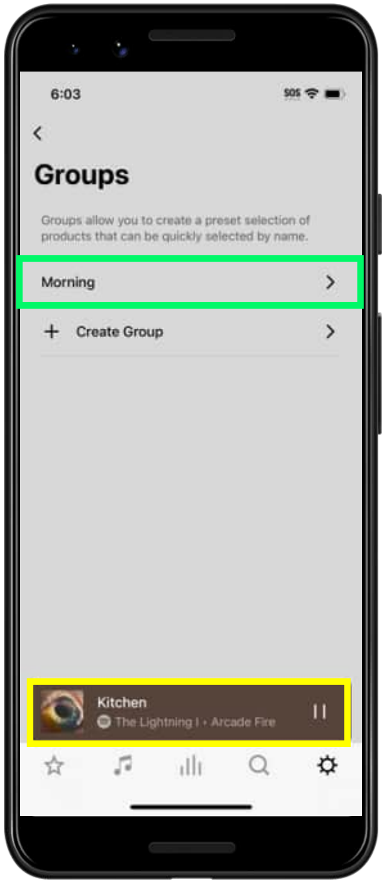


Create a group

1. Tap **Create Group**.
2. Tap the rooms you want to include in your saved group.
3. Give your group a name and tap **Save**.

Sonos's "Zone Scene" Grouping – Allows for Standalone Use


Master Bedroom
Living Room
Kitchen


6:03
SOS

Groups

Groups allow you to create a preset selection of products that can be quickly selected by name.

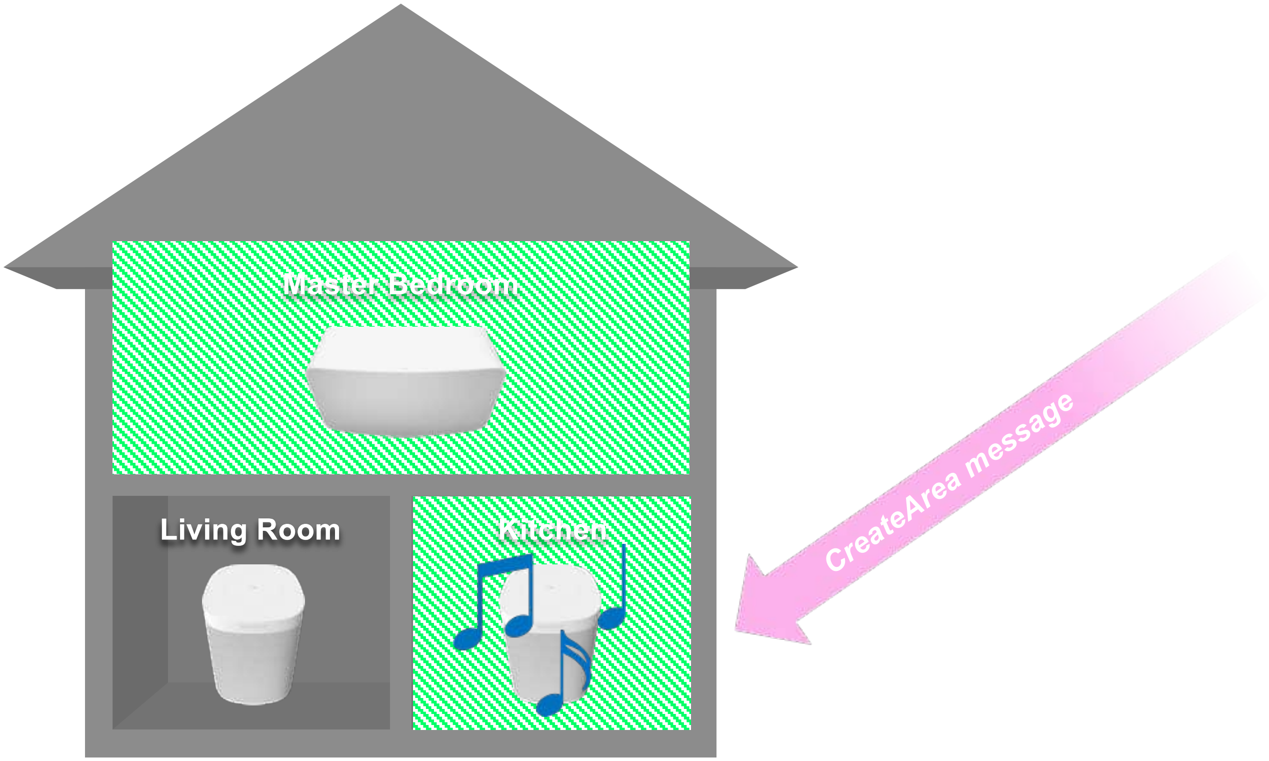
Morning

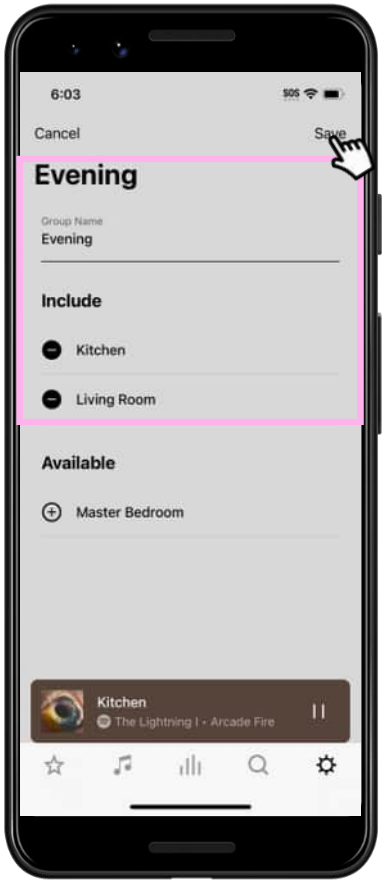
+ Create Group

Kitchen

The Lightning I · Arcade Fire

Sonos's "Zone Scene" Grouping – Allows for Overlapping Groups


Master Bedroom
Living Room
Kitchen
CreateArea message


6:03
Cancel
Save

Evening

Group Name
Evening

Include

Kitchen

Living Room

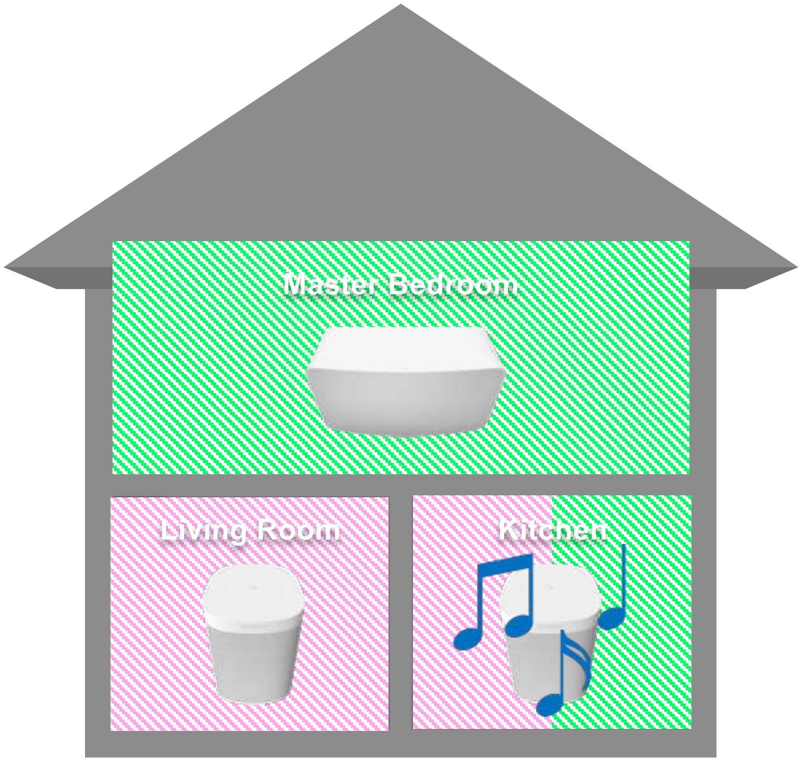
Available

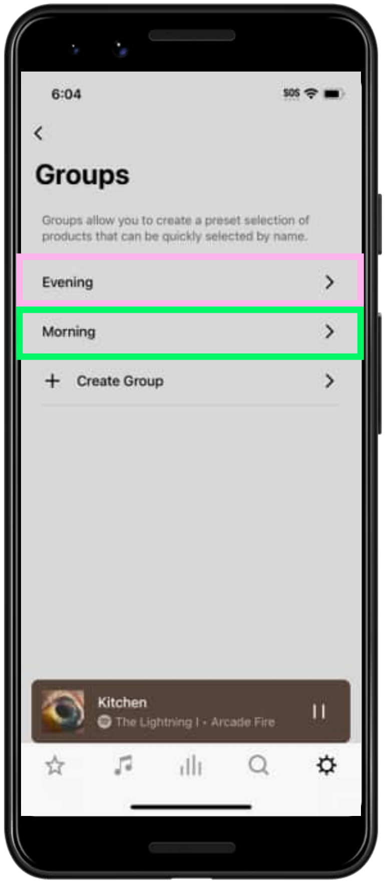
Master Bedroom

Kitchen
The Lightning I · Arcade Fire

EXHIBIT A - FILED UNDER SEAL

Sonos's "Zone Scene" Grouping – Allows for Overlapping Groups

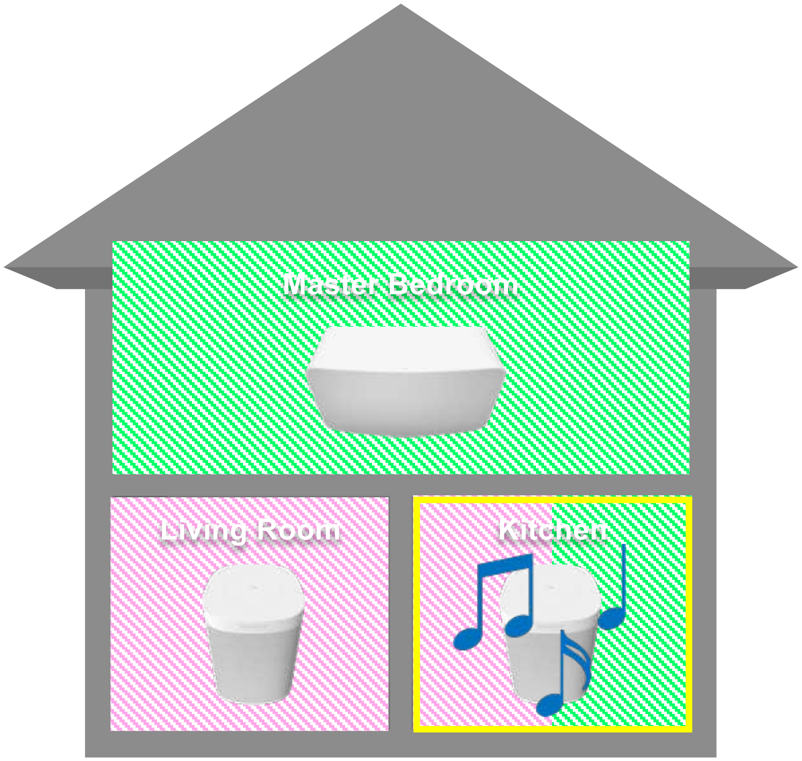

Master Bedroom
Living Room
Kitchen

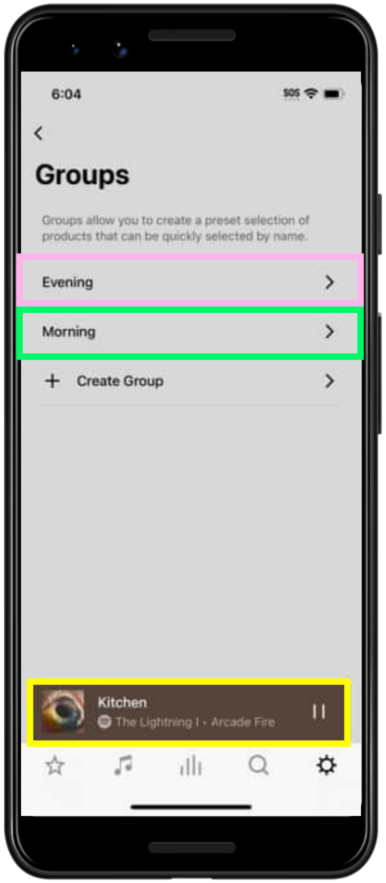

6:04
SOS
Groups

Groups allow you to create a preset selection of products that can be quickly selected by name.

Evening
Morning
Create Group
Kitchen
The Lightning I • Arcade Fire

Sonos's "Zone Scene" Grouping – Allows for Overlapping Groups


Master Bedroom
Living Room
Kitchen


6:04

Groups

Groups allow you to create a preset selection of products that can be quickly selected by name.

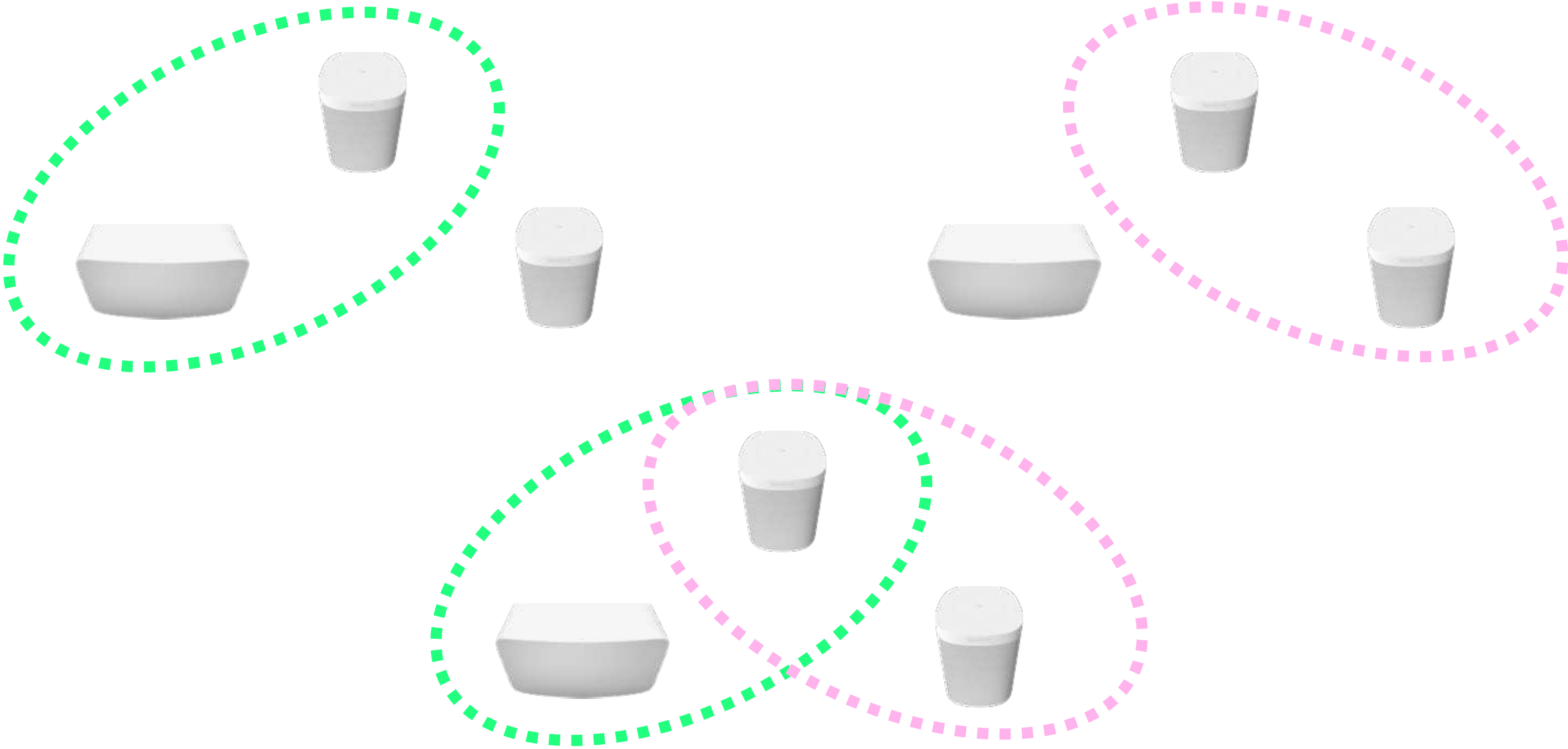
Evening

Morning

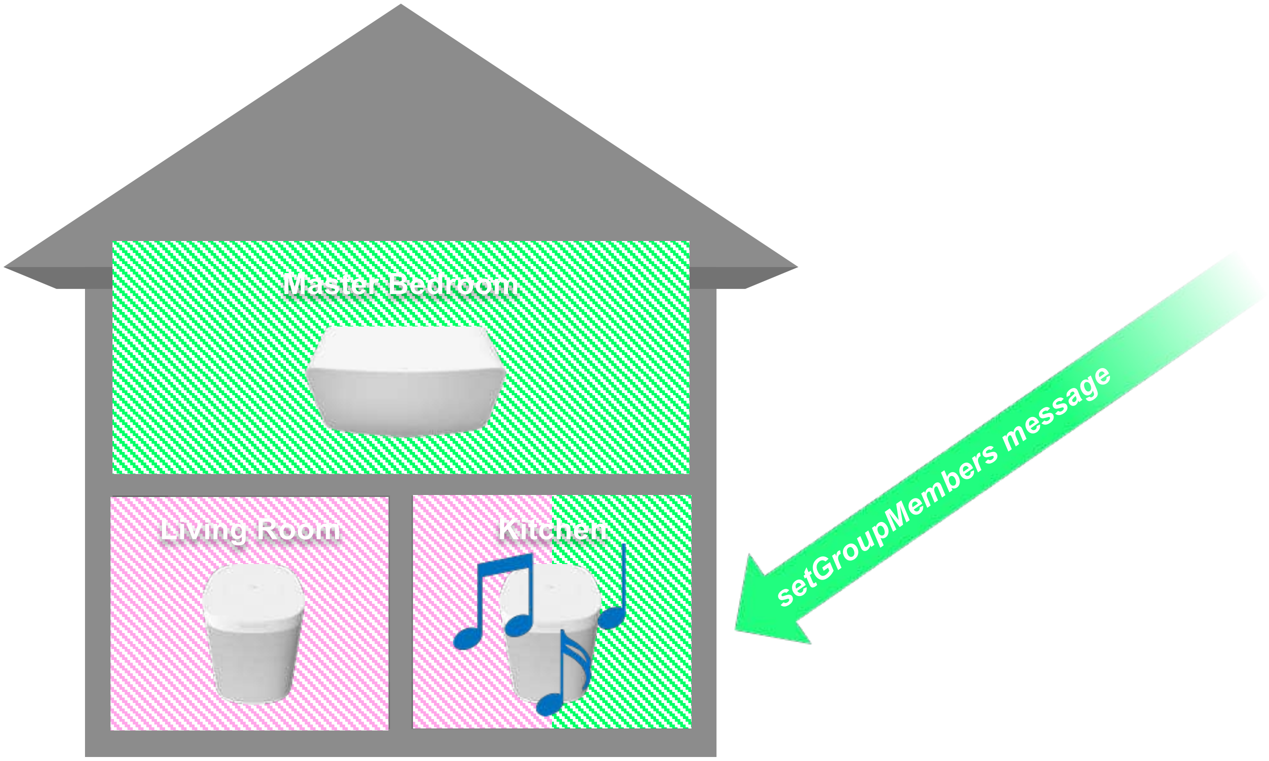
Create Group

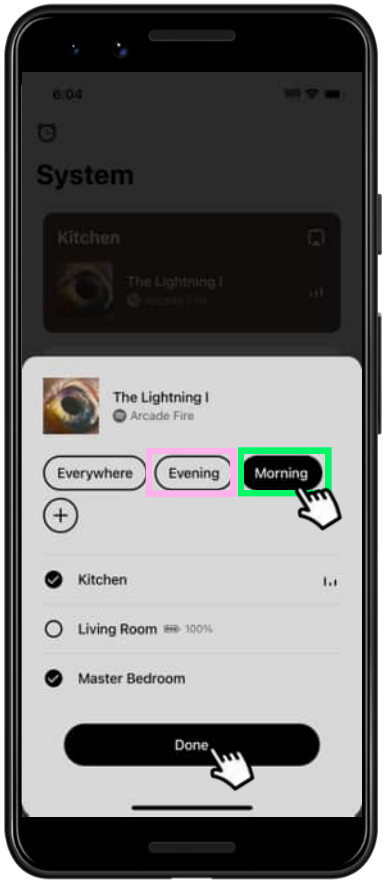
Kitchen
The Lightning I · Arcade Fire

Sonos's "Zone Scene" Grouping – Allows for Overlapping Groups



Sonos's "Zone Scene" Grouping – Invoking Zone Scene


Master Bedroom
Living Room
Kitchen
setGroupMembers message


6:04

System

Kitchen

The Lightning I

The Lightning I
Arcade Fire

Everywhere
Evening
Morning
+

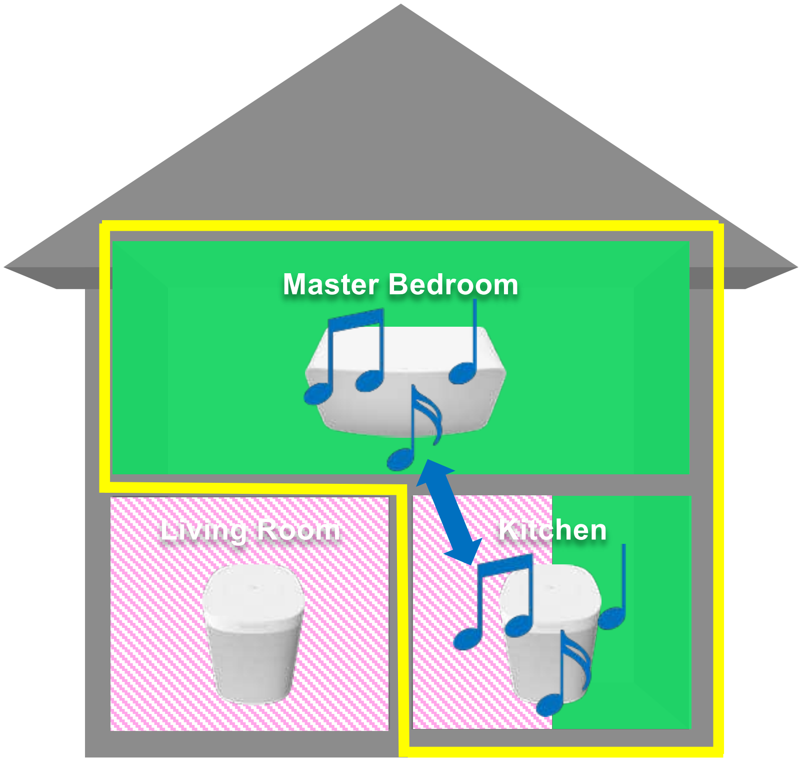
● Kitchen

○ Living Room 100%

● Master Bedroom

Done

Sonos's "Zone Scene" Grouping – Invoking Zone Scene


Master Bedroom
Living Room
Kitchen

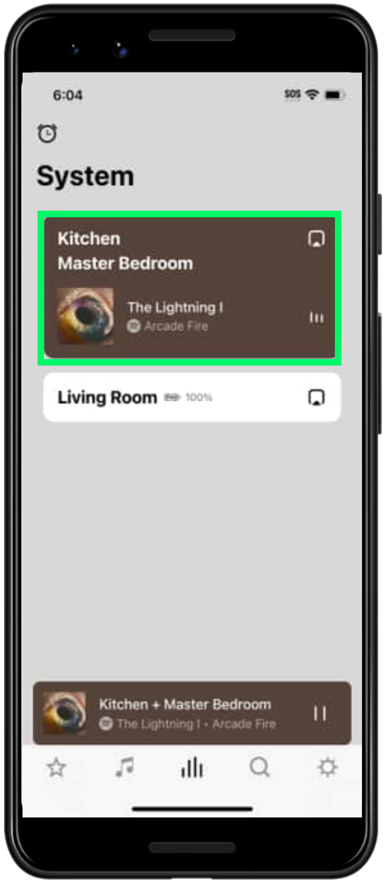
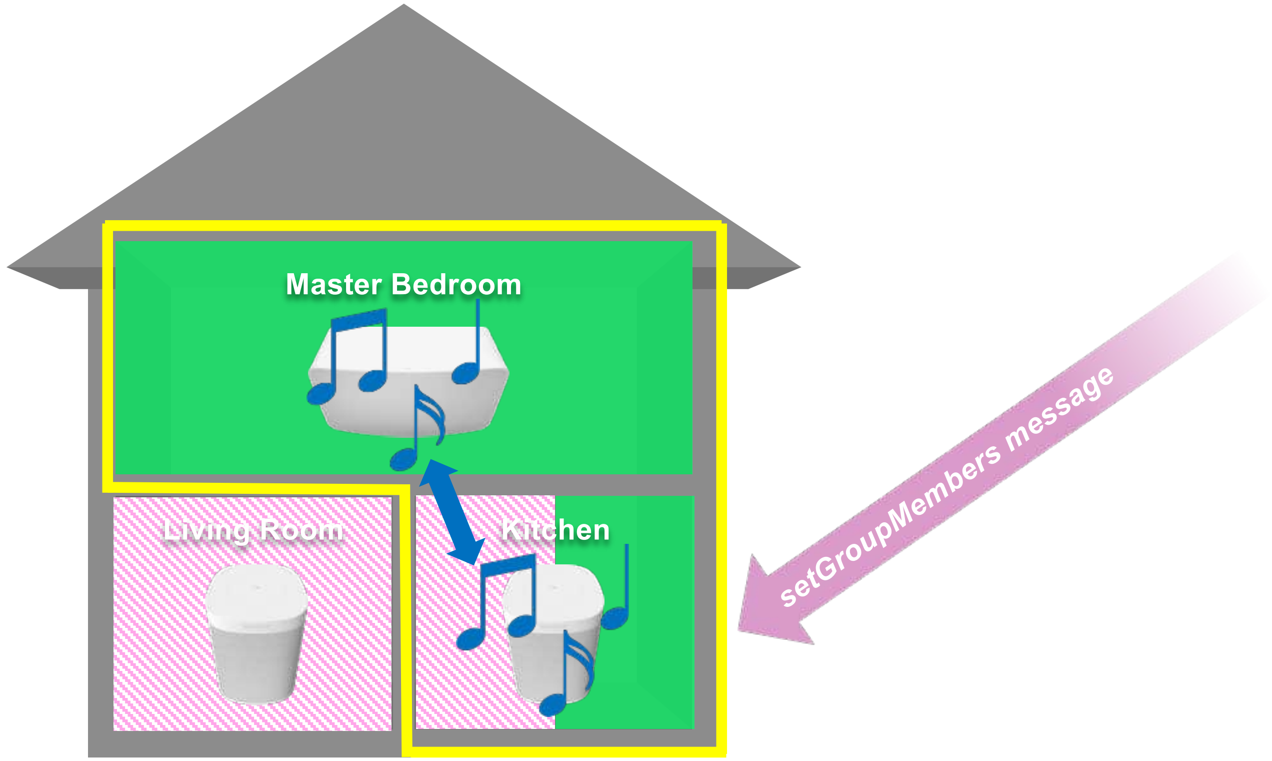
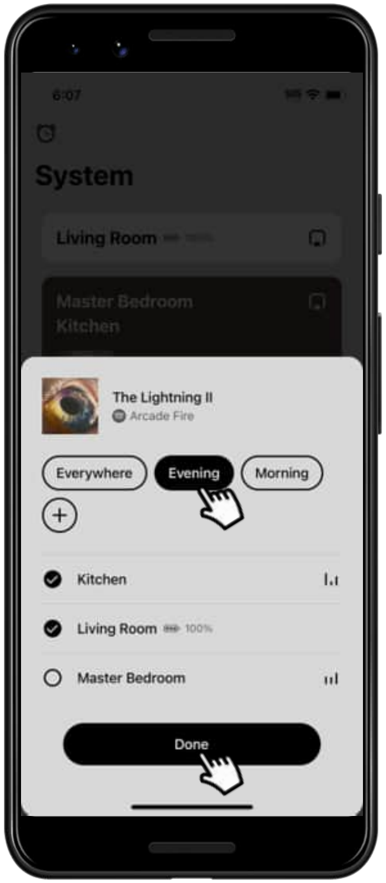

6:04
SOS
System
Kitchen
Master Bedroom
The Lightning I
Arcade Fire
Living Room
100%
Kitchen + Master Bedroom
The Lightning I • Arcade Fire

EXHIBIT A - FILED UNDER SEAL

Sonos's "Zone Scene" Grouping – Invoking Zone Scene


Master Bedroom
Living Room
Kitchen
setGroupMembers message

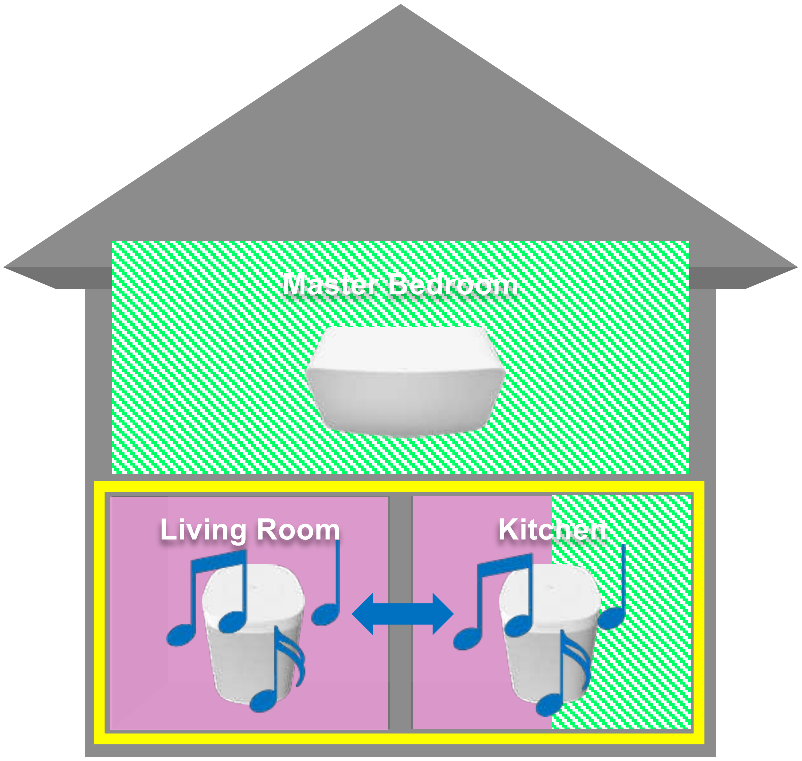

6:07
System
Living Room
Master Bedroom
Kitchen
The Lightning II
Arcade Fire
Everywhere
Evening
Morning
+
Done

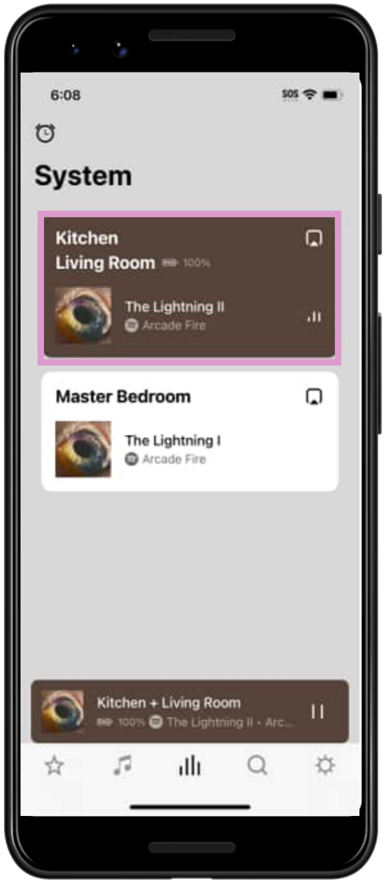
● Kitchen

● Living Room 100%

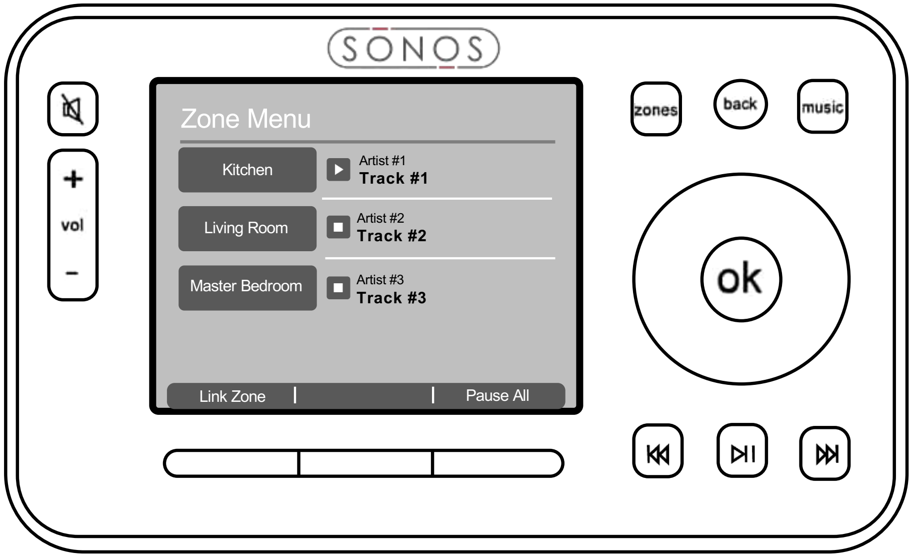
○ Master Bedroom

Sonos's "Zone Scene" Grouping – Invoking Zone Scene

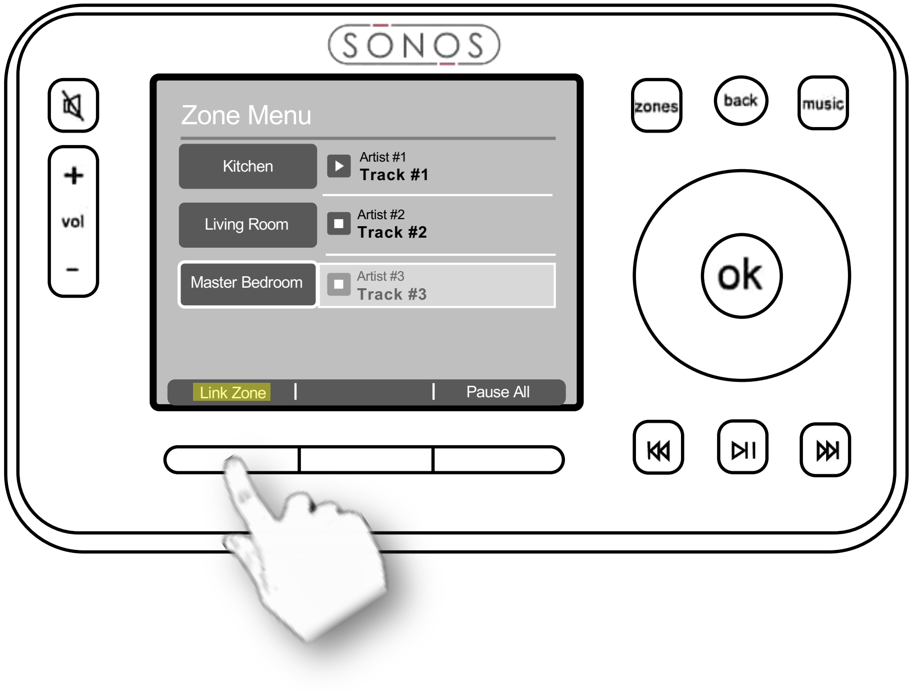

Master Bedroom
Living Room
Kitchen


6:08
System
Kitchen
Living Room 100%
The Lightning II
Arcade Fire
Master Bedroom
The Lightning I
Arcade Fire
Kitchen + Living Room
100% The Lightning II - Arc...

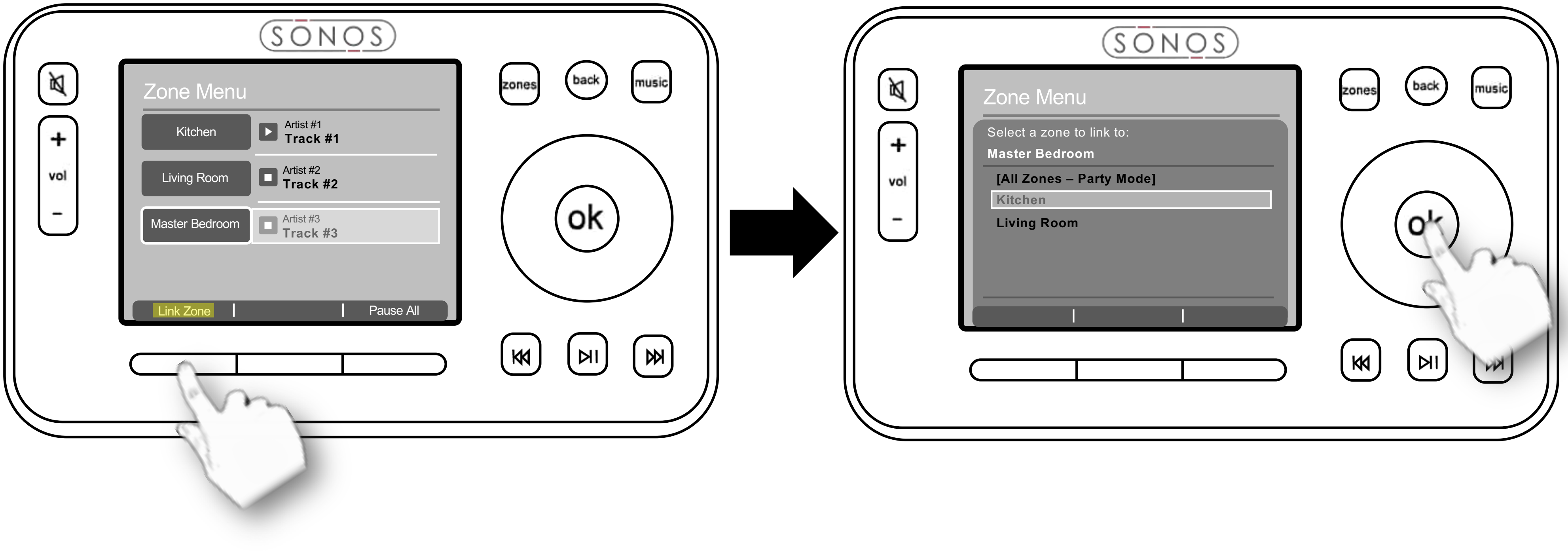
Sonos's 2005 Ad-Hoc Grouping


SONOS
Zone Menu
Kitchen
Artist #1
Track #1
Living Room
Artist #2
Track #2
Master Bedroom
Artist #3
Track #3
Link Zone
Pause All
vol
+
-
zones
back
music
ok

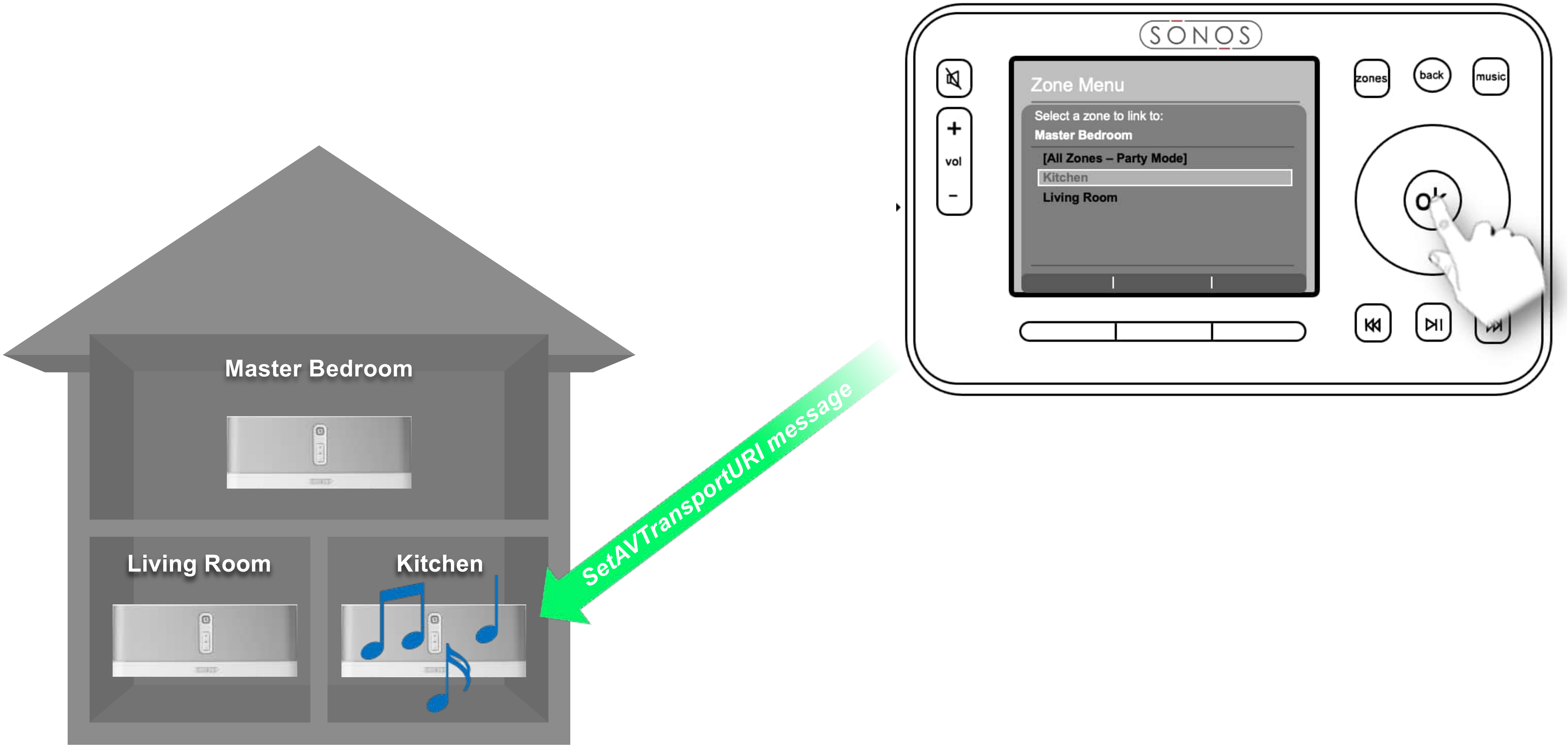
Sonos's 2005 Ad-Hoc Grouping


SONOS
Zone Menu
Kitchen
Artist #1
Track #1
Living Room
Artist #2
Track #2
Master Bedroom
Artist #3
Track #3
Link Zone
Pause All
vol
+
-
zones
back
music
ok

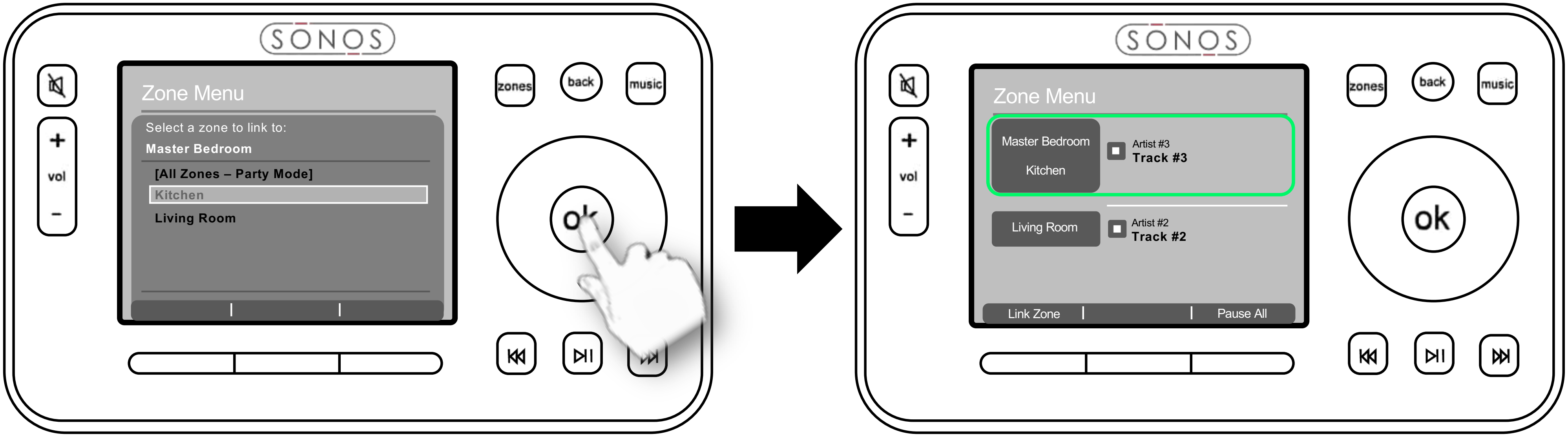
Sonos's 2005 Ad-Hoc Grouping


SONOS
vol
Zone Menu
Kitchen
Artist #1
Track #1
Living Room
Artist #2
Track #2
Master Bedroom
Artist #3
Track #3
Link Zone
Pause All
zones
back
music
ok
SONOS
vol
Zone Menu
Select a zone to link to:
Master Bedroom
[All Zones – Party Mode]
Kitchen
Living Room
zones
back
music
ok

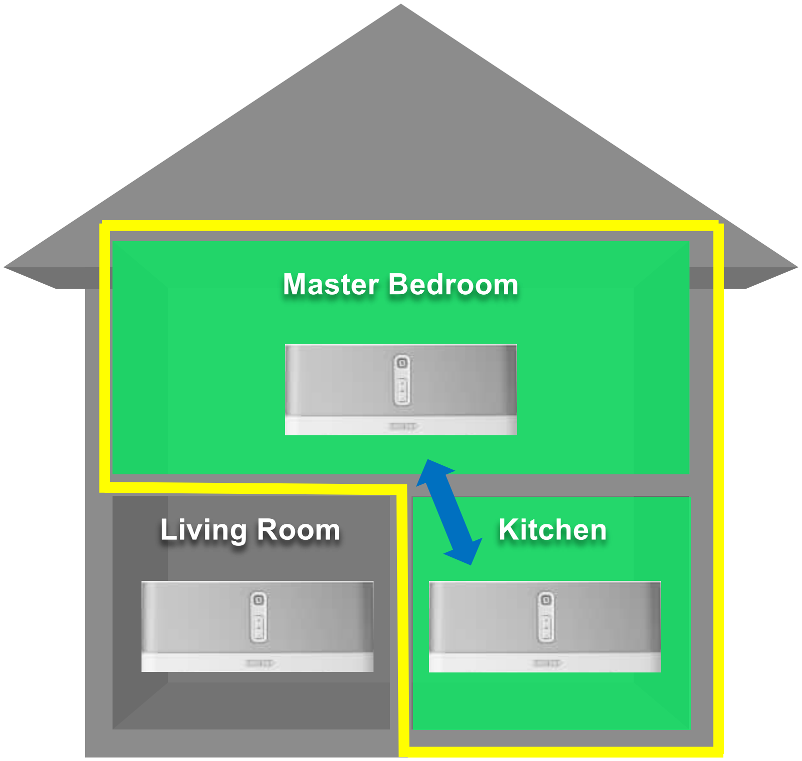
Sonos's 2005 Ad-Hoc Grouping – Groups Can Only Exist in Invoked State

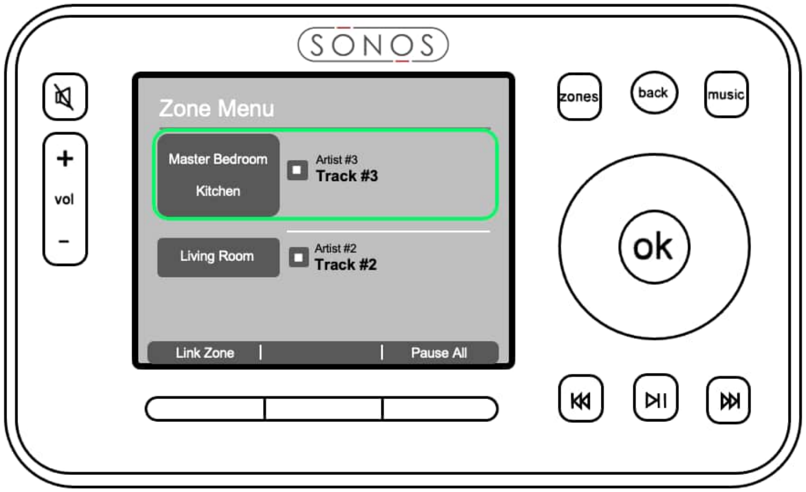

SONOS
Zone Menu
Select a zone to link to:
Master Bedroom
[All Zones – Party Mode]
Kitchen
Living Room
zones
back
music
vol
ok
SetAVTransportURI message
Master Bedroom
Living Room
Kitchen

Sonos’s 2005 Ad-Hoc Grouping – Groups Can Only Exist in Invoked State

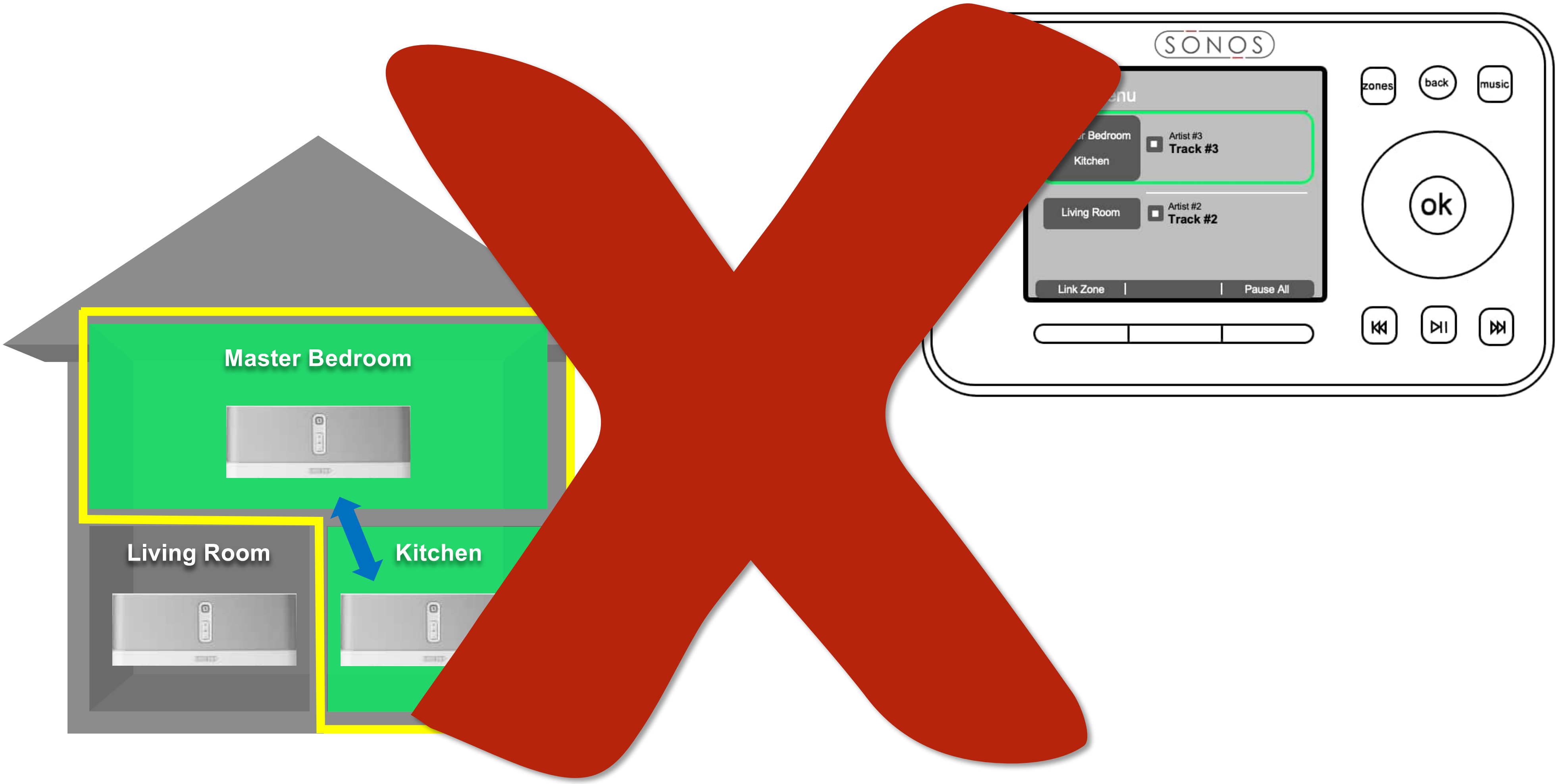

SONOS
Zone Menu
Select a zone to link to:
Master Bedroom
[All Zones – Party Mode]
Kitchen
Living Room
zones
back
music
vol
ok
SONOS
Zone Menu
Master Bedroom
Kitchen
Artist #3
Track #3
Living Room
Artist #2
Track #2
Link Zone
Pause All
zones
back
music
vol
ok

Sonos's 2005 Ad-Hoc Grouping – Groups Can Only Exist in Invoked State

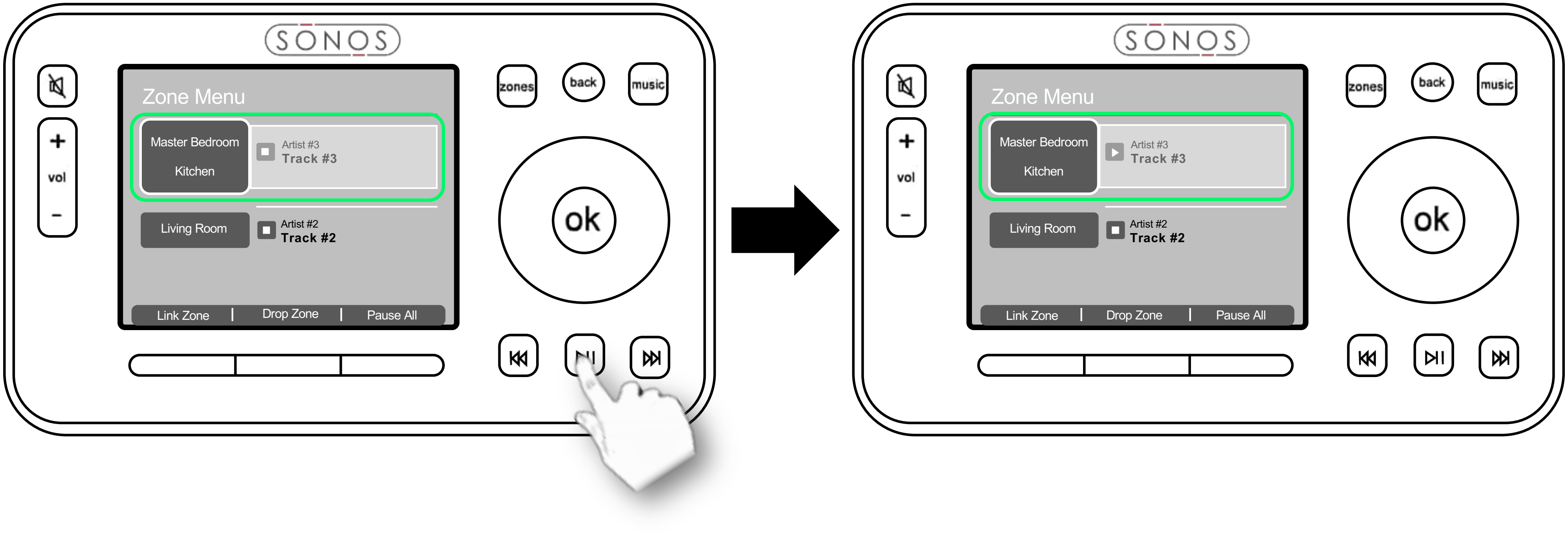

Master Bedroom
Living Room
Kitchen


SONOS
vol
+
-
Zone Menu
Master Bedroom
Kitchen
Artist #3
Track #3
Living Room
Artist #2
Track #2
Link Zone
Pause All
zones
back
music
ok

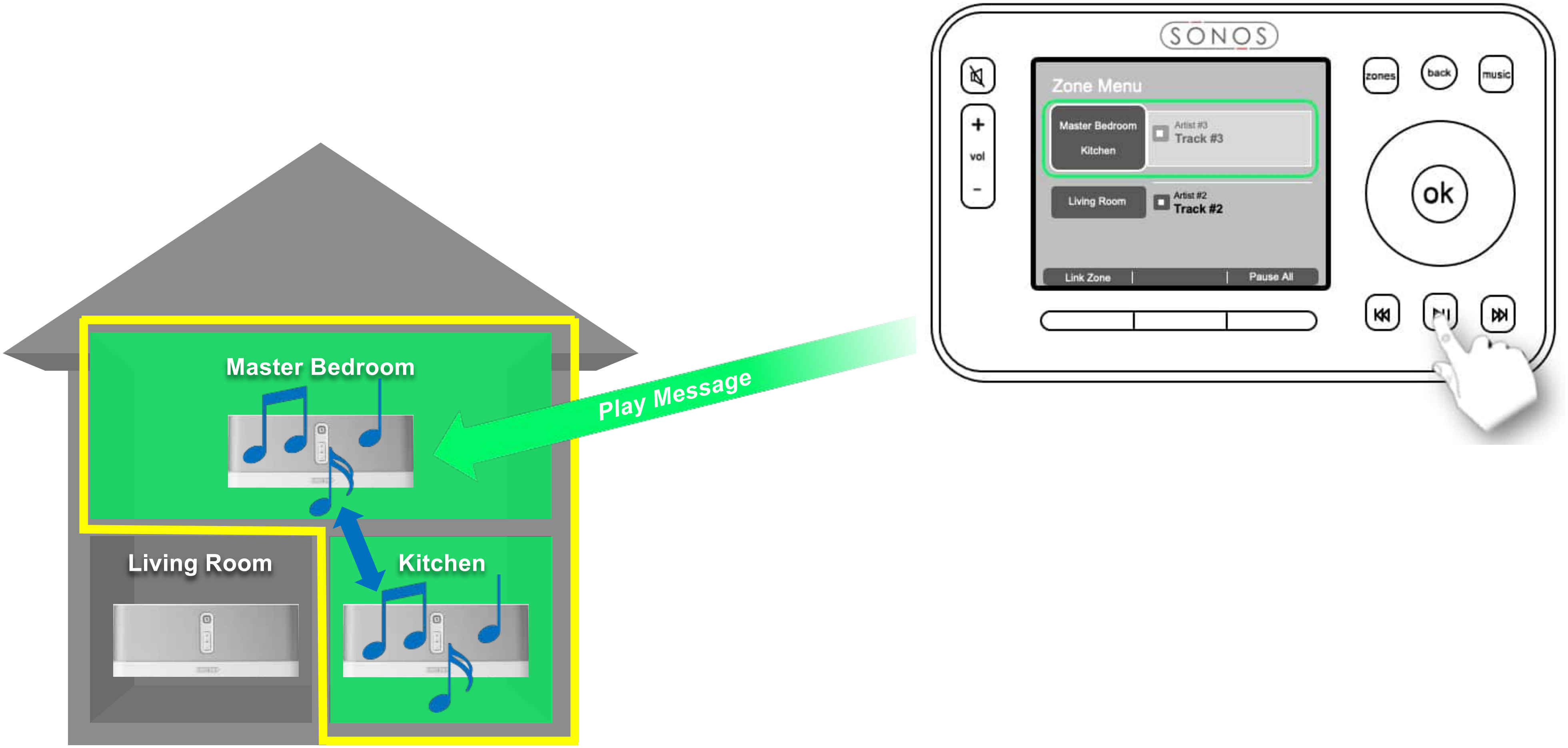
Sonos's 2005 Ad-Hoc Grouping – No "Indication" of Being Added to "Zone Scene"


Master Bedroom
Living Room
Kitchen
SONOS
nu
r Bedroom
Kitchen
Artist #3
Track #3
Living Room
Artist #2
Track #2
Link Zone
Pause All
zones
back
music
ok

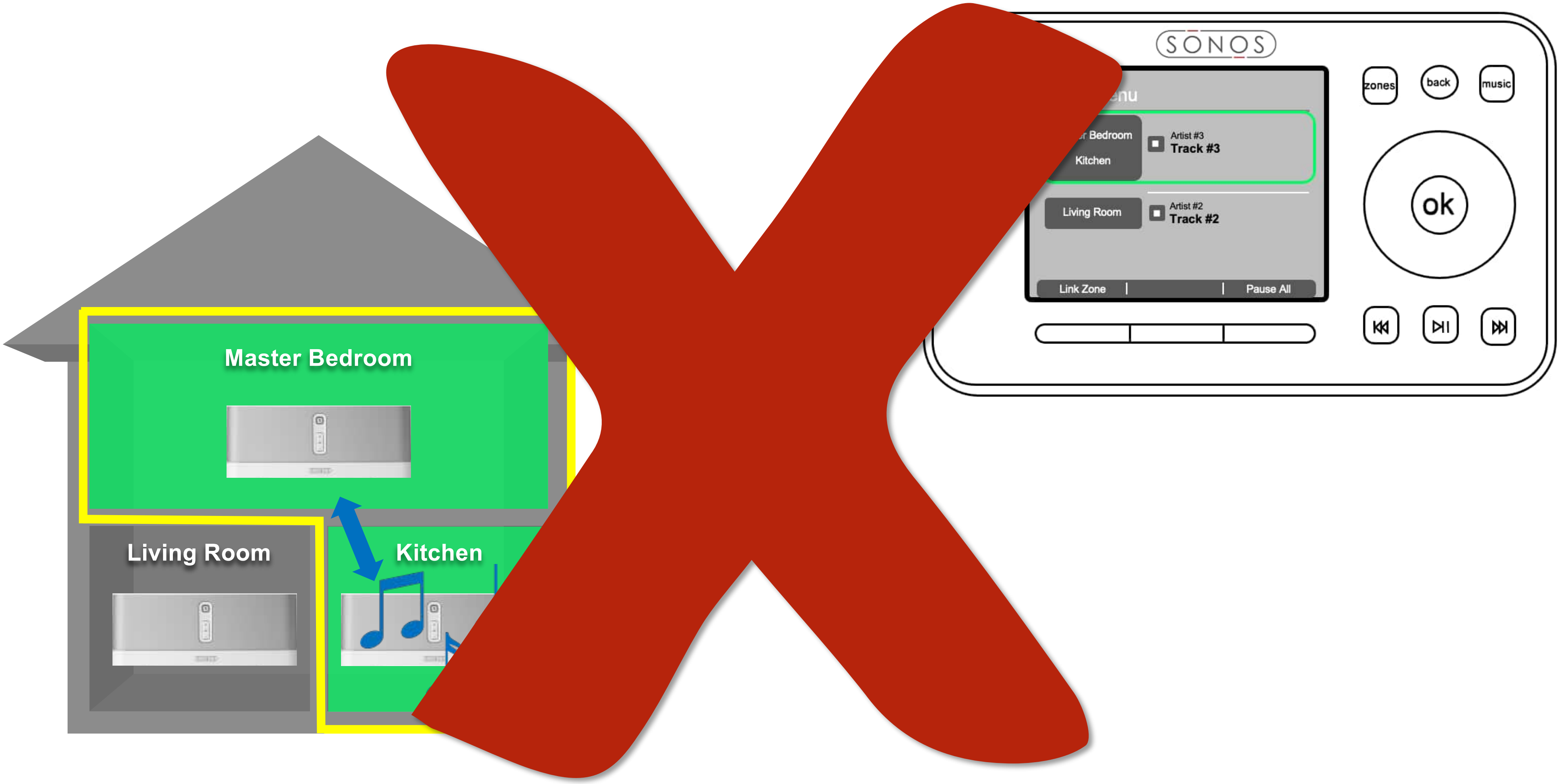
Sonos's 2005 Ad-Hoc Grouping – Initiating Playback After Invocation


SONOS
Zone Menu
Master Bedroom
Kitchen
Artist #3
Track #3
Living Room
Artist #2
Track #2
Link Zone
Drop Zone
Pause All
vol
+
-
zones
back
music
ok
SONOS
Zone Menu
Master Bedroom
Kitchen
Artist #3
Track #3
Living Room
Artist #2
Track #2
Link Zone
Drop Zone
Pause All
vol
+
-
zones
back
music
ok

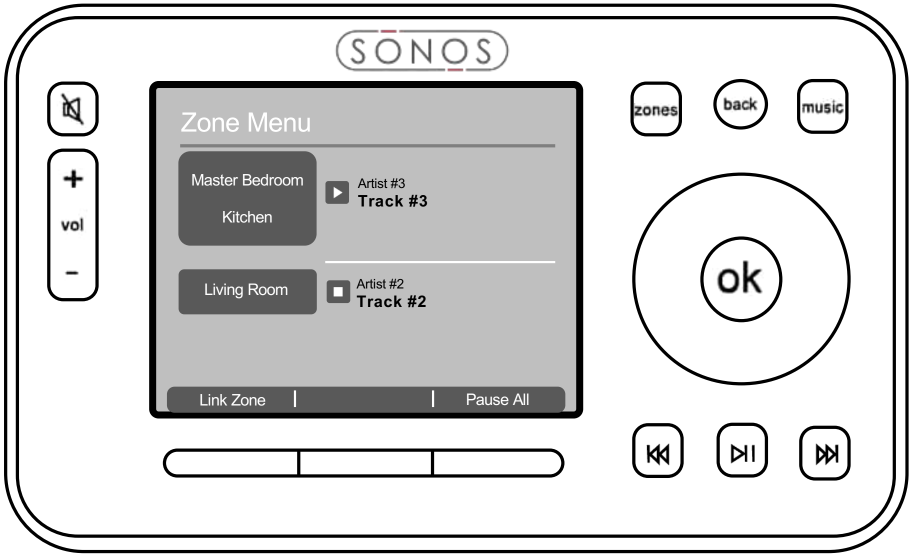
Sonos's 2005 Ad-Hoc Grouping – Initiating Playback After Invocation


Master Bedroom
Living Room
Kitchen
Play Message
SONOS
Zone Menu
Master Bedroom
Kitchen
Artist #3
Track #3
Living Room
Artist #2
Track #2
Link Zone
Pause All
vol
zones
back
music
ok

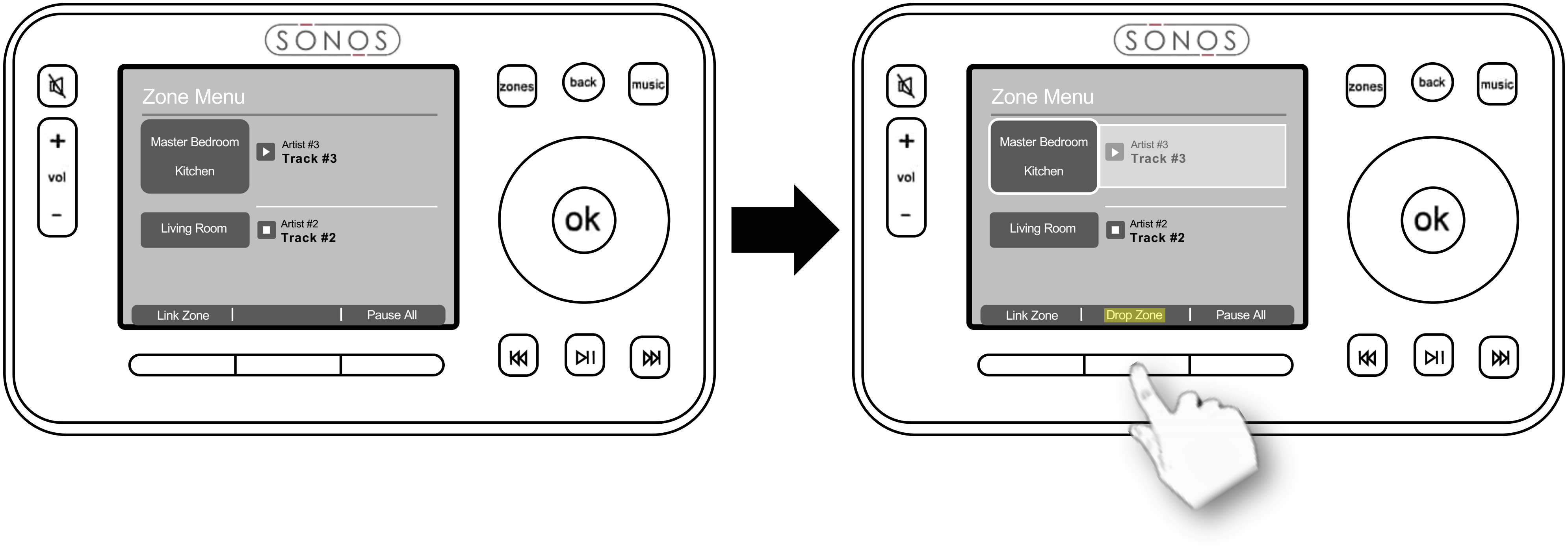
Sonos’s 2005 Ad-Hoc Grouping – No Standalone Use


Master Bedroom
Living Room
Kitchen
SONOS
enu
r Bedroom
Kitchen
Artist #3
Track #3
Living Room
Artist #2
Track #2
Link Zone
Pause All
zones
back
music
ok

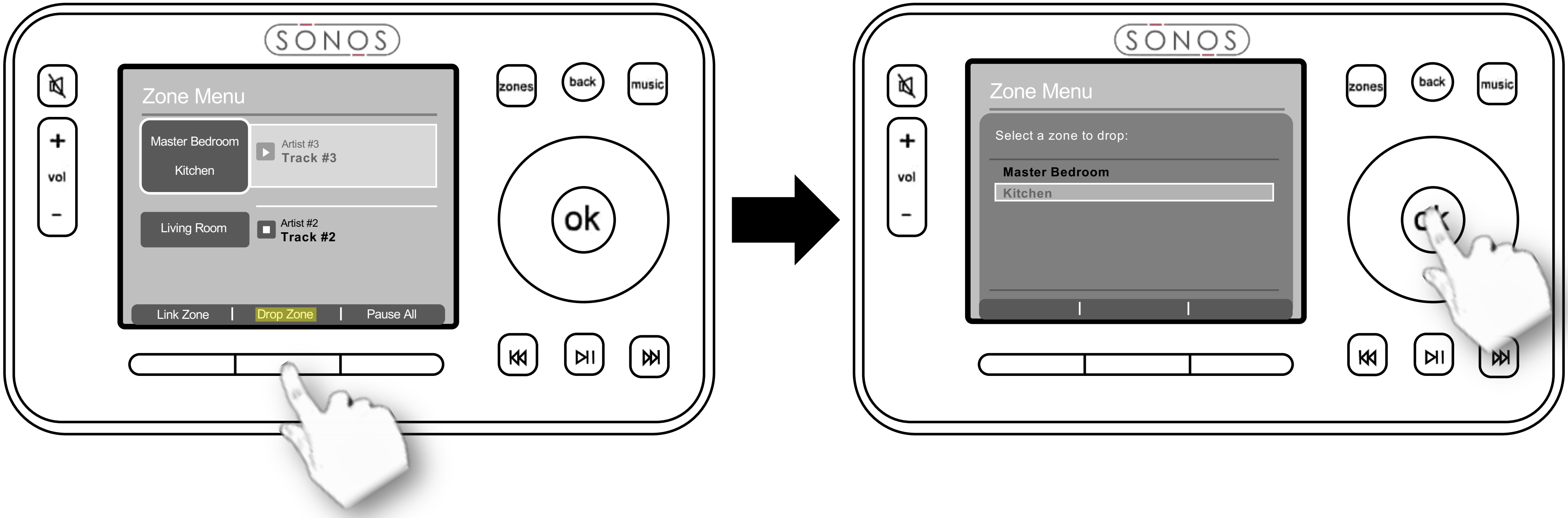
Sonos’s 2005 Ad-Hoc Grouping – No Overlapping Groups


SONOS
Zone Menu
Master Bedroom
Kitchen
Artist #3
Track #3
Living Room
Artist #2
Track #2
Link Zone
Pause All
vol
zones
back
music
ok

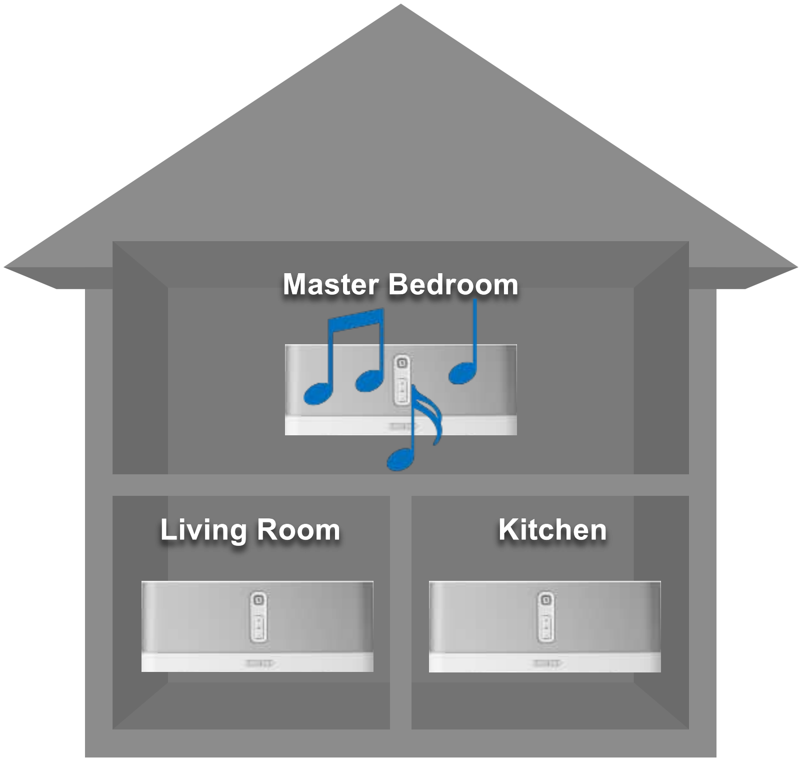
Sonos's 2005 Ad-Hoc Grouping – No Overlapping Groups

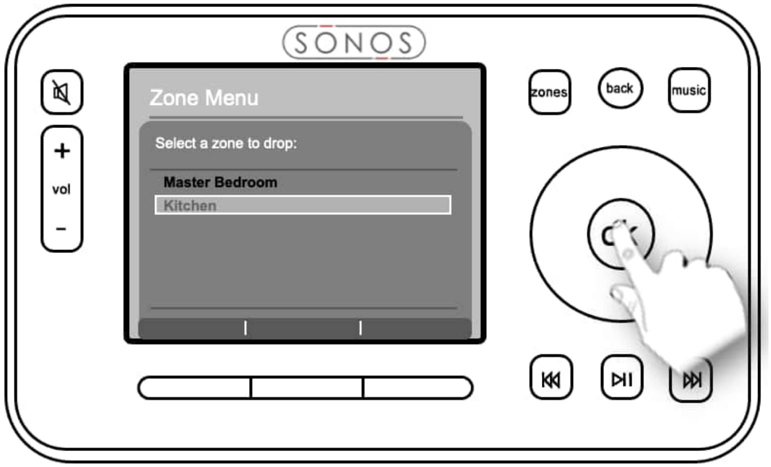

SONOS
Zone Menu
Master Bedroom
Kitchen
Artist #3
Track #3
Living Room
Artist #2
Track #2
Link Zone
Pause All
zones
back
music
vol
ok
SONOS
Zone Menu
Master Bedroom
Kitchen
Artist #3
Track #3
Living Room
Artist #2
Track #2
Link Zone
Drop Zone
Pause All
zones
back
music
vol
ok

Sonos's 2005 Ad-Hoc Grouping – No Overlapping Groups

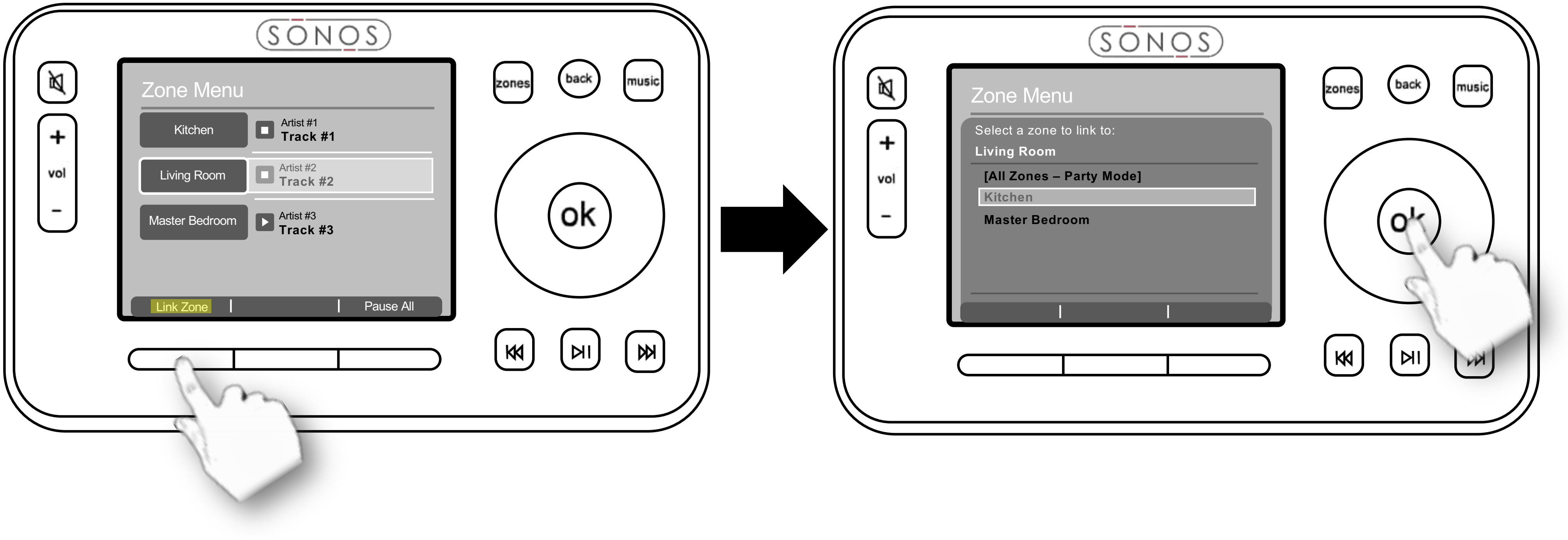

SONOS
Zone Menu
Master Bedroom
Kitchen
Artist #3
Track #3
Living Room
Artist #2
Track #2
Link Zone
Drop Zone
Pause All
vol
zones
back
music
ok
SONOS
Zone Menu
Select a zone to drop:
Master Bedroom
Kitchen
vol
zones
back
music
ok

Sonos's 2005 Ad-Hoc Grouping – No Overlapping Groups

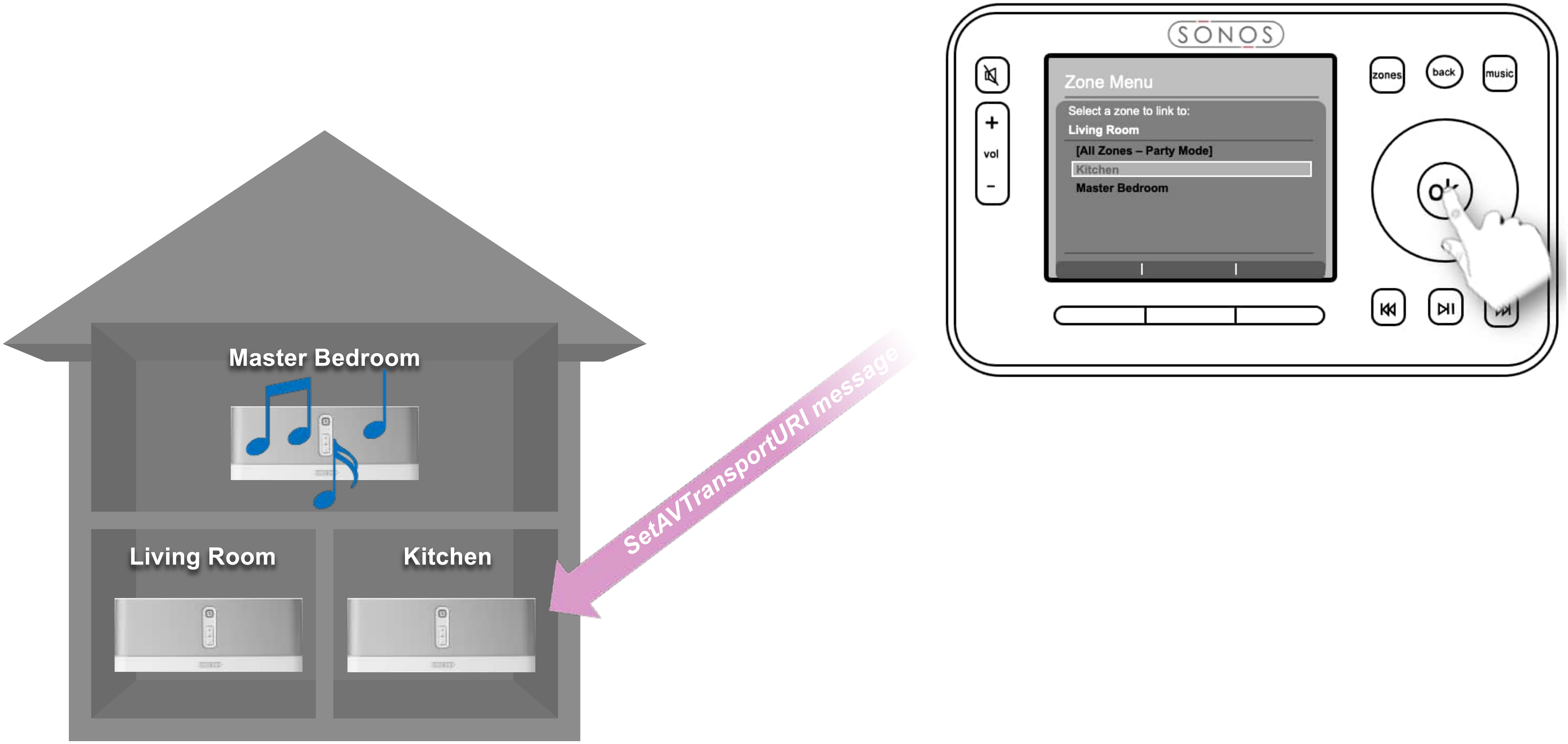

Master Bedroom
Living Room
Kitchen


SONOS
Zone Menu
Select a zone to drop:
Master Bedroom
Kitchen
vol
zones
back
music
OK

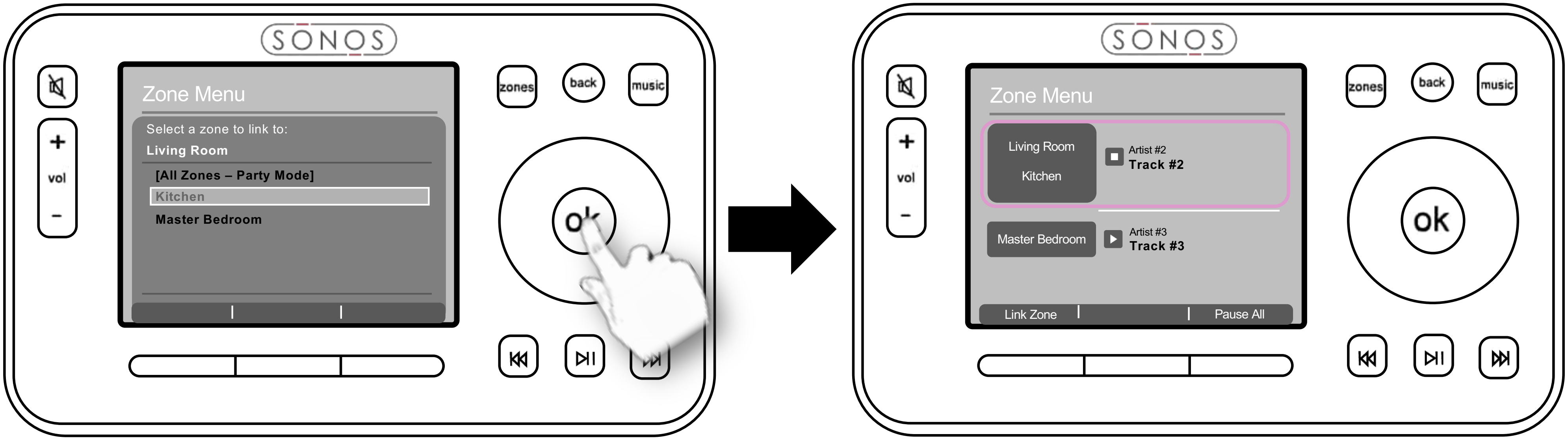
Sonos’s 2005 Ad-Hoc Grouping – No Overlapping Groups


SONOS
Zone Menu
Kitchen
Artist #1
Track #1
Living Room
Artist #2
Track #2
Master Bedroom
Artist #3
Track #3
Link Zone
Pause All
zones
back
music
vol
ok
SONOS
Zone Menu
Select a zone to link to:
Living Room
[All Zones – Party Mode]
Kitchen
Master Bedroom
zones
back
music
vol
ok

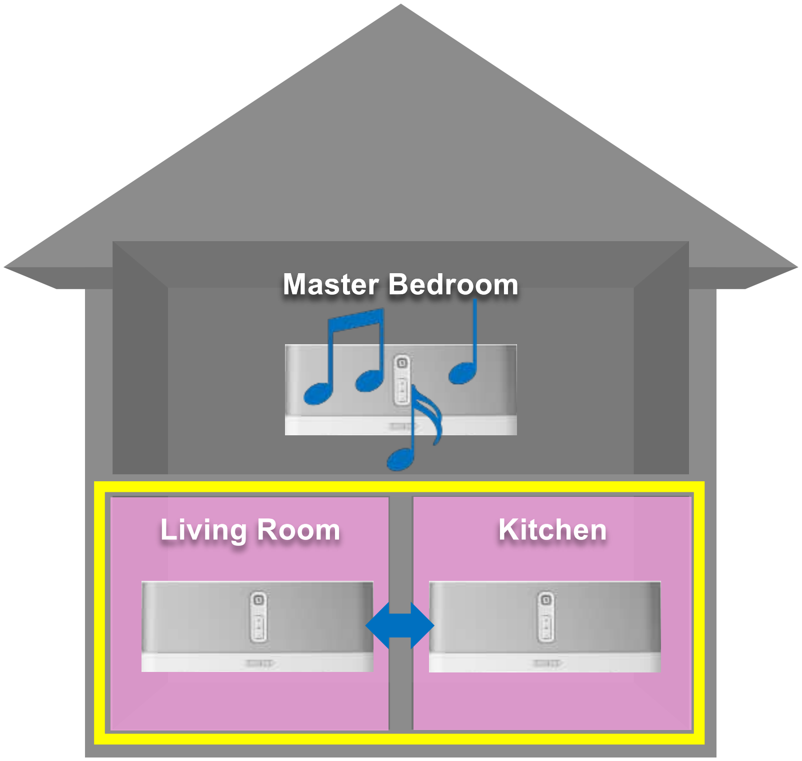
Sonos's 2005 Ad-Hoc Grouping – No Overlapping Groups


SONOS
Zone Menu
Select a zone to link to:
Living Room
[All Zones – Party Mode]
Kitchen
Master Bedroom
vol
zones
back
music
ok
Master Bedroom
Living Room
Kitchen
SetAVTransportURI message

Sonos’s 2005 Ad-Hoc Grouping – No Overlapping Groups


SONOS
Zone Menu
Select a zone to link to:
Living Room
[All Zones – Party Mode]
Kitchen
Master Bedroom
vol
zones
back
music
ok
SONOS
Zone Menu
Living Room
Kitchen
Artist #2
Track #2
Master Bedroom
Artist #3
Track #3
Link Zone
Pause All
vol
zones
back
music
ok

Sonos’s 2005 Ad-Hoc Grouping – No Overlapping Groups


Master Bedroom
Living Room
Kitchen

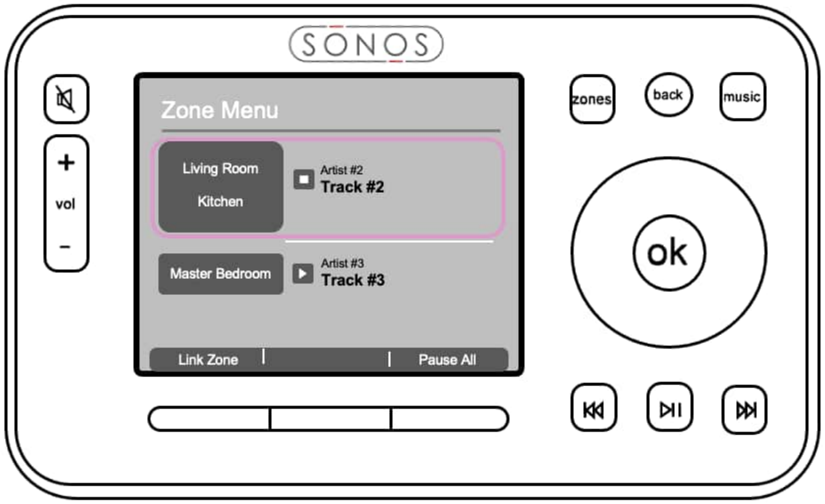
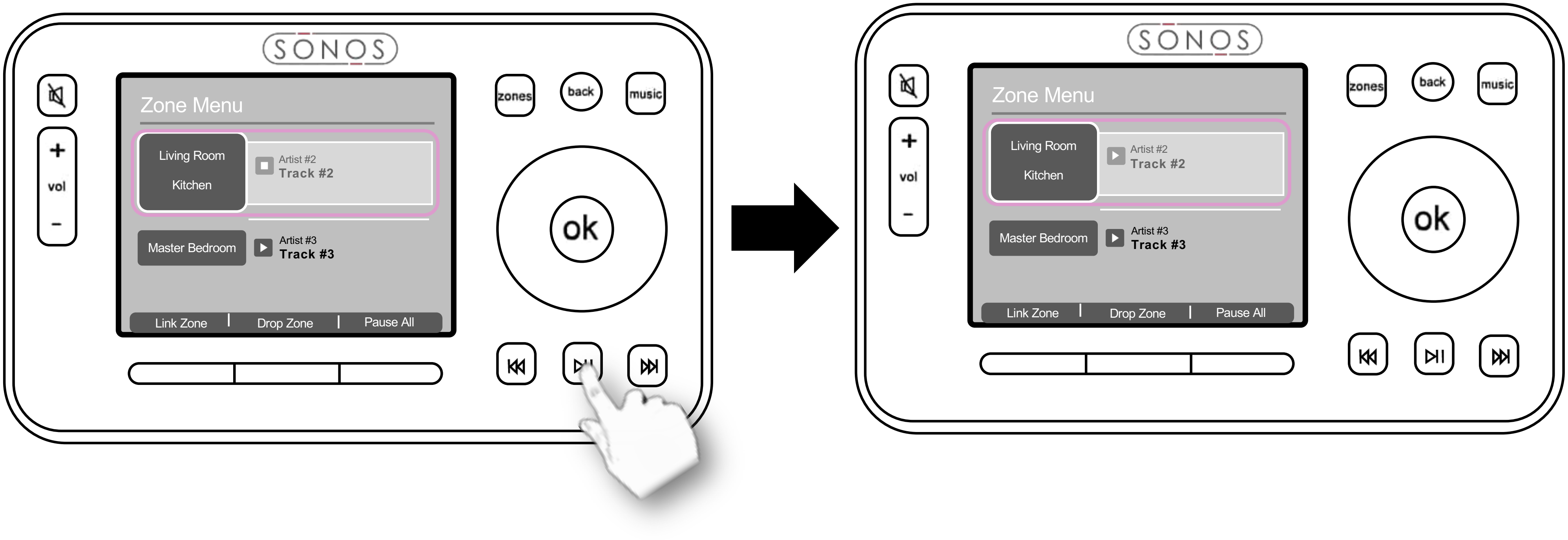
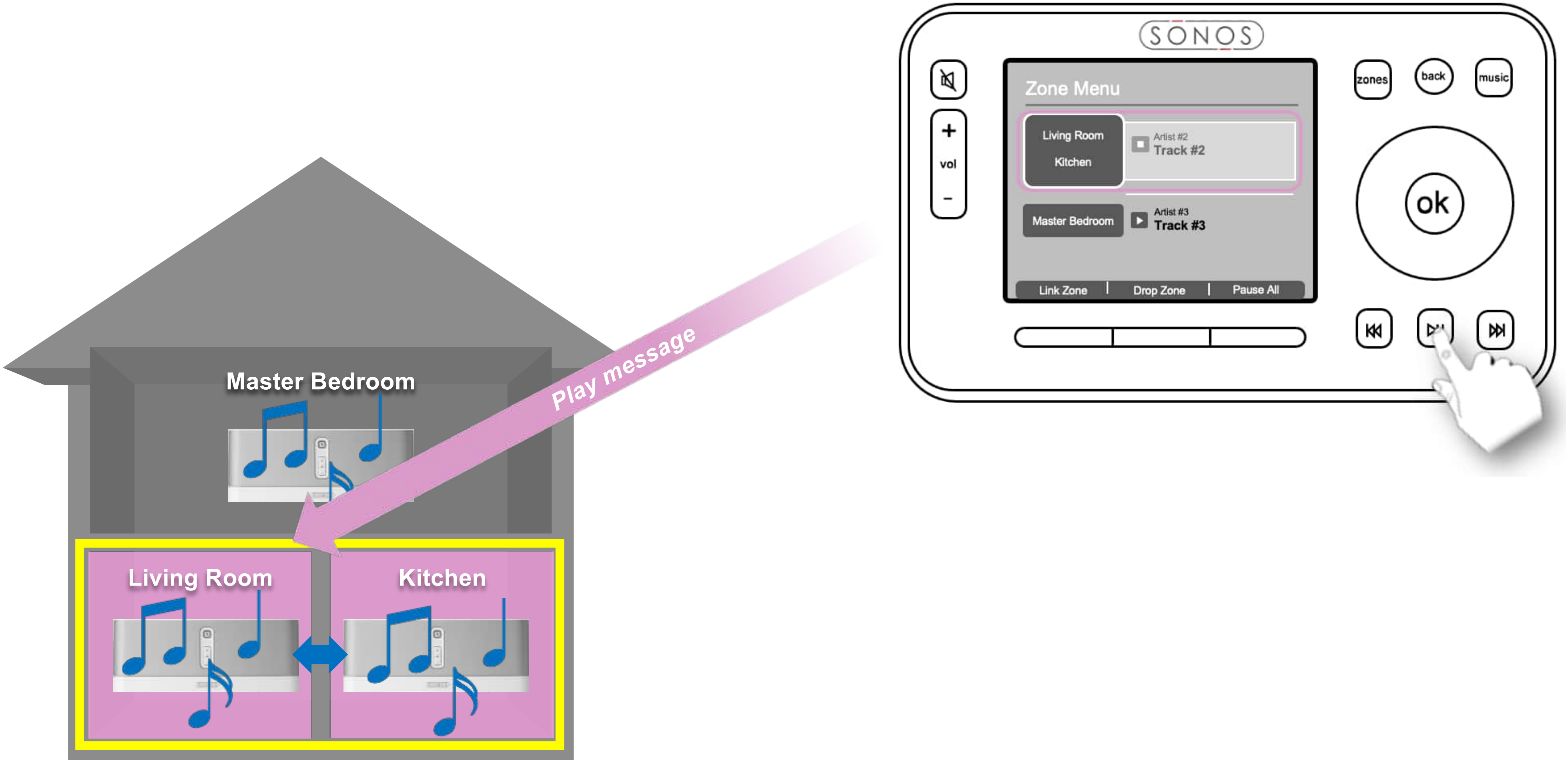

SONOS
vol
+
-
Zone Menu
Living Room
Kitchen
Artist #2
Track #2
Master Bedroom
Artist #3
Track #3
Link Zone
Pause All
zones
back
music
ok

EXHIBIT A - FILED UNDER SEAL

Sonos's 2005 Ad-Hoc Grouping – No Overlapping Groups


SONOS
Zone Menu
Living Room
Kitchen
Artist #2
Track #2
Master Bedroom
Artist #3
Track #3
Link Zone
Drop Zone
Pause All
zones
back
music
+
vol
–
ok
SONOS
Zone Menu
Living Room
Kitchen
Artist #2
Track #2
Master Bedroom
Artist #3
Track #3
Link Zone
Drop Zone
Pause All
zones
back
music
+
vol
–
ok

Sonos's 2005 Ad-Hoc Grouping – No Overlapping Groups


SONOS
Zone Menu
Living Room
Kitchen
Artist #2
Track #2
Master Bedroom
Artist #3
Track #3
Link Zone
Drop Zone
Pause All
vol
zones
back
music
ok
Play message
Master Bedroom
Living Room
Kitchen

Sonos's 2005 Ad-Hoc Grouping – No Overlapping Groups

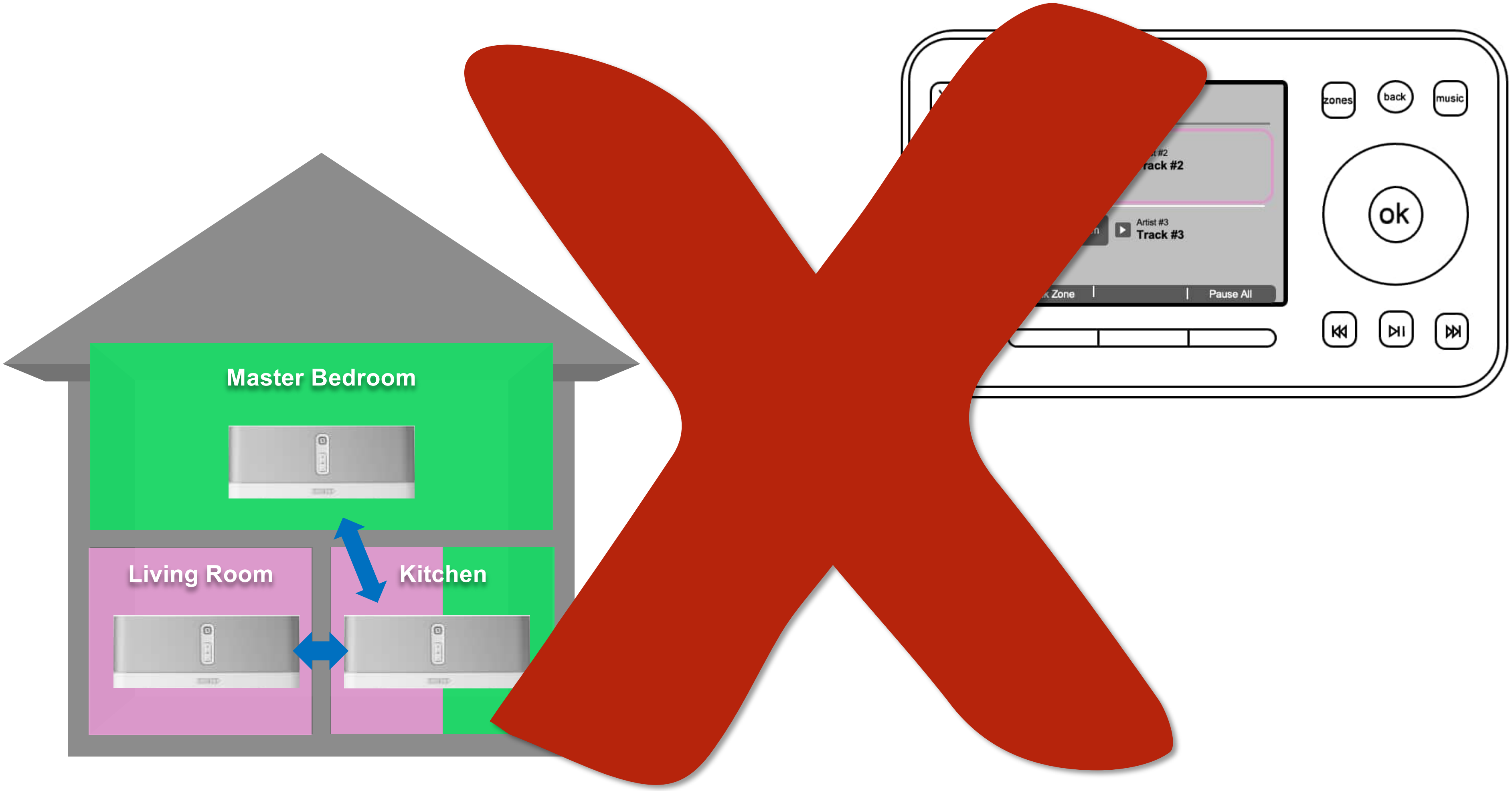
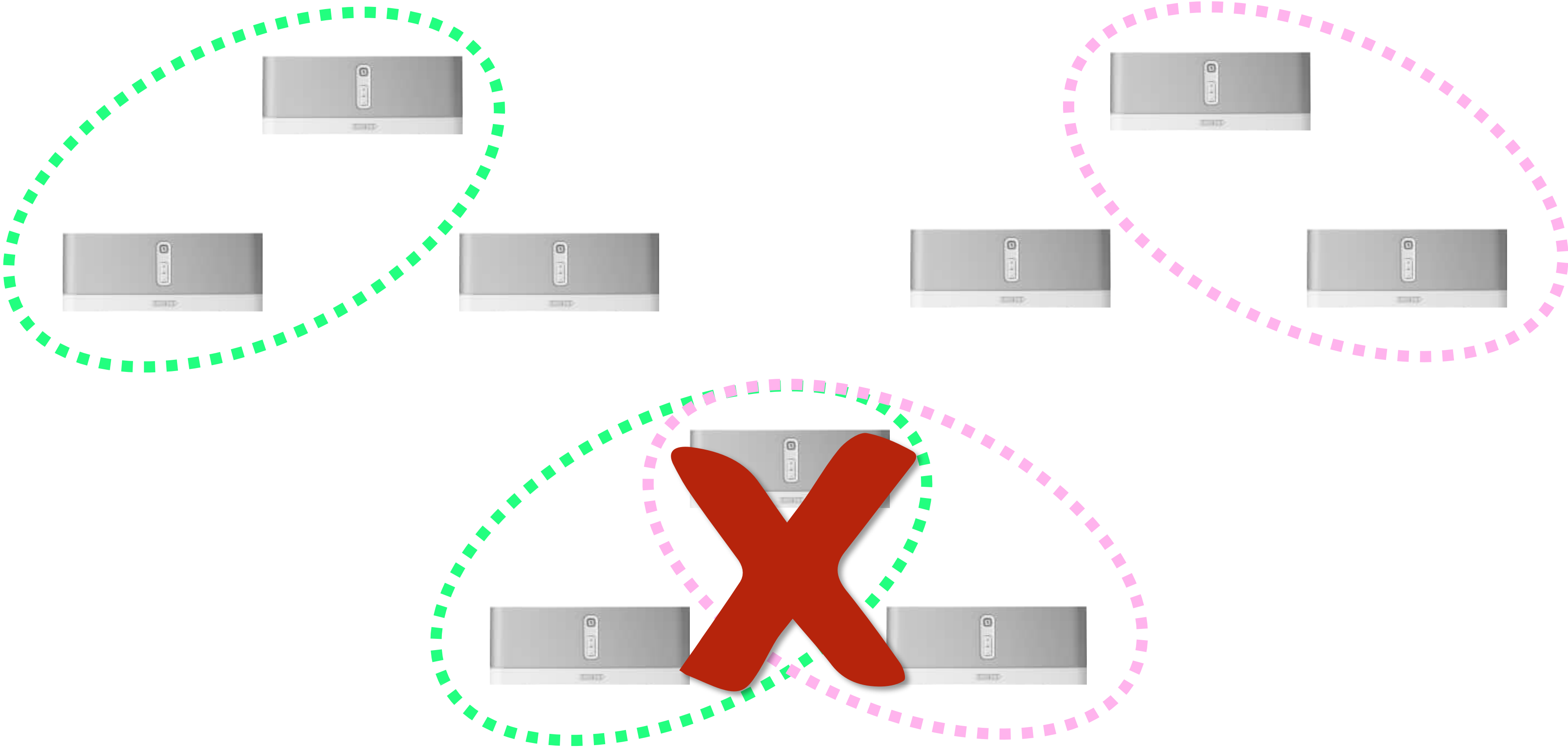
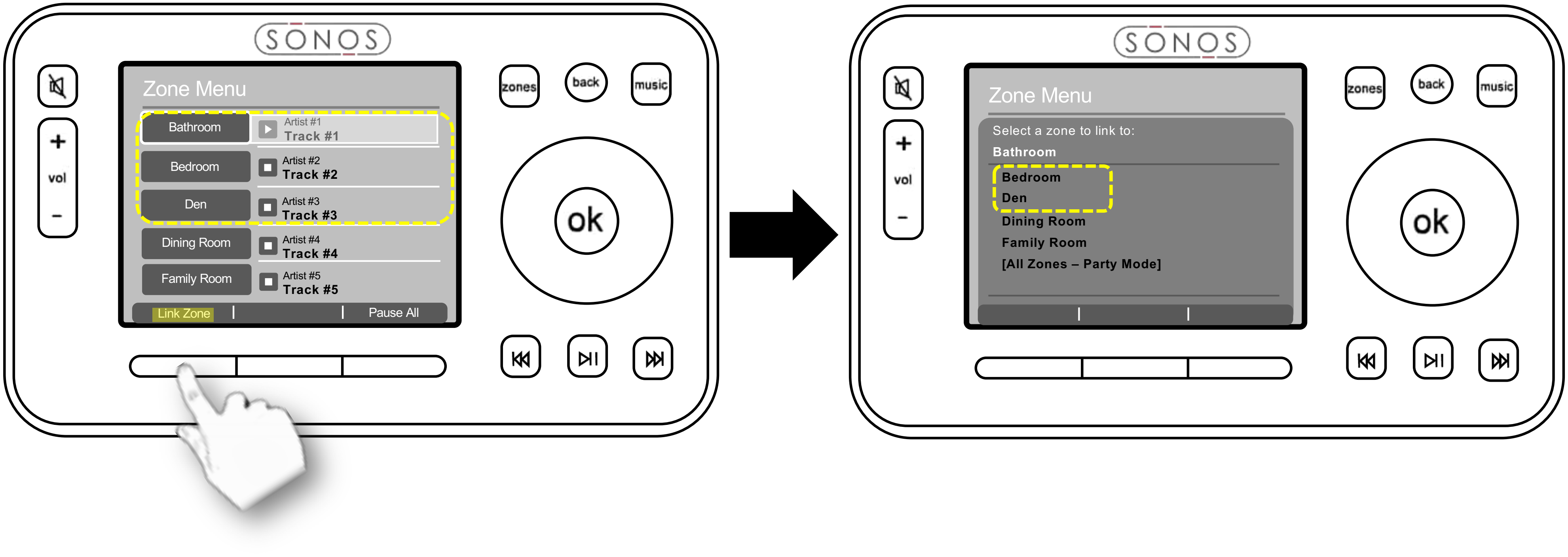

Master Bedroom
Living Room
Kitchen
zones
back
music
ok
rack #2
Artist #3
Track #3
Zone
Pause All

EXHIBIT A - FILED UNDER SEAL

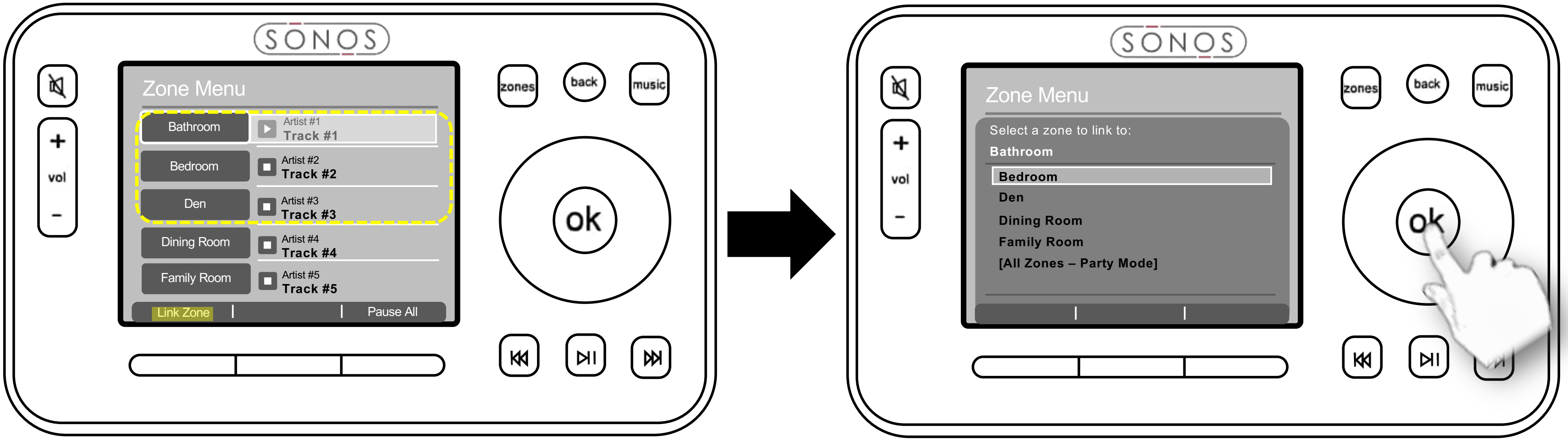
Sonos’s 2005 Ad-Hoc Grouping – No Overlapping Groups



Sonos's 2005 Ad-Hoc Grouping – No Saving of Groups


SONOS
Zone Menu
Bathroom
Artist #1
Track #1
Bedroom
Artist #2
Track #2
Den
Artist #3
Track #3
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Link Zone
Pause All
vol
zones
back
music
ok
SONOS
Zone Menu
Select a zone to link to:
Bathroom
Bedroom
Den
Dining Room
Family Room
[All Zones – Party Mode]
vol
zones
back
music
ok

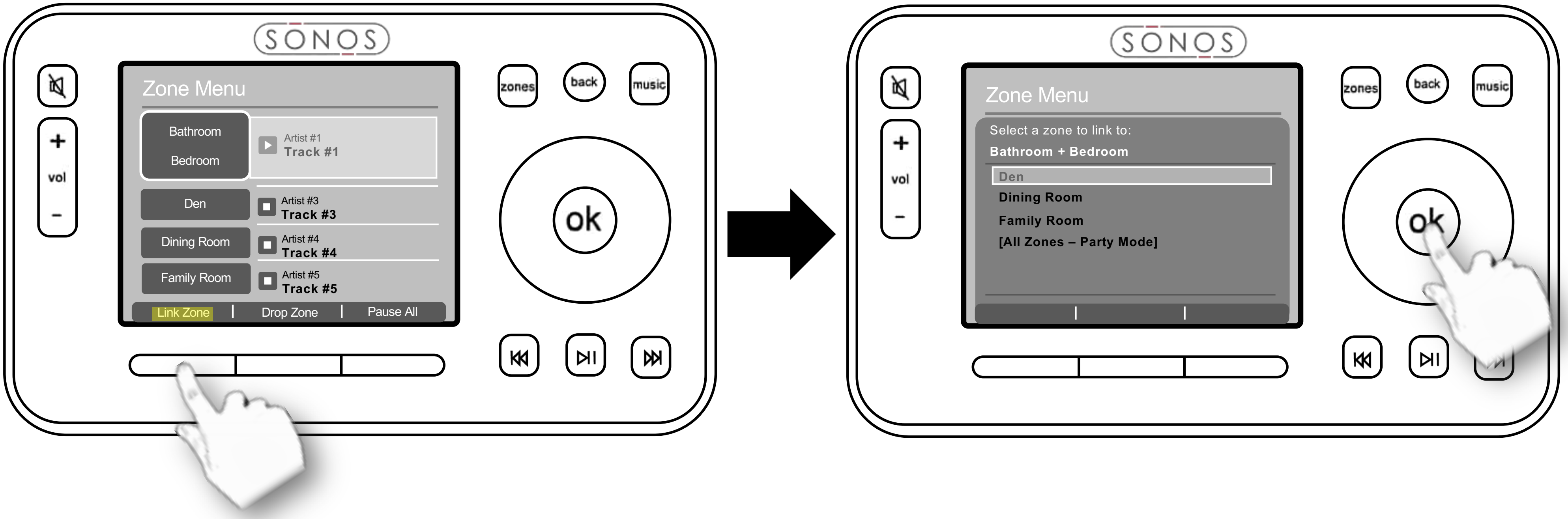
Sonos's 2005 Ad-Hoc Grouping – No Saving of Groups


SONOS
Zone Menu
Bathroom
Artist #1
Track #1
Bedroom
Artist #2
Track #2
Den
Artist #3
Track #3
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Link Zone
Pause All
zones
back
music
vol
ok
SONOS
Zone Menu
zones
back
music
vol
ok

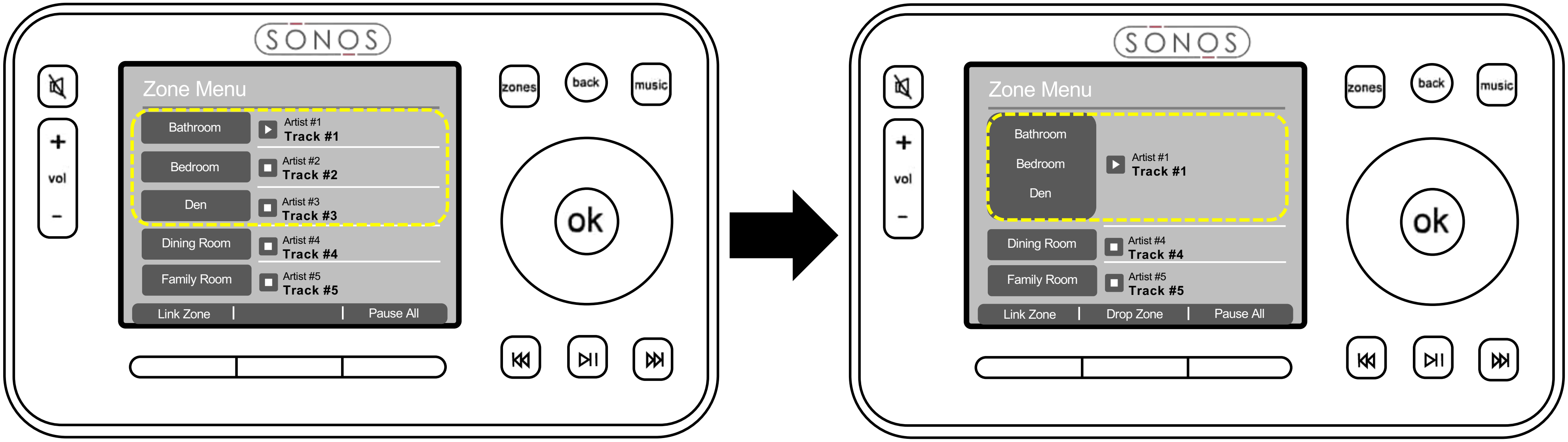
Select a zone to link to:
Bathroom

Bedroom
Den
Dining Room
Family Room
[All Zones – Party Mode]

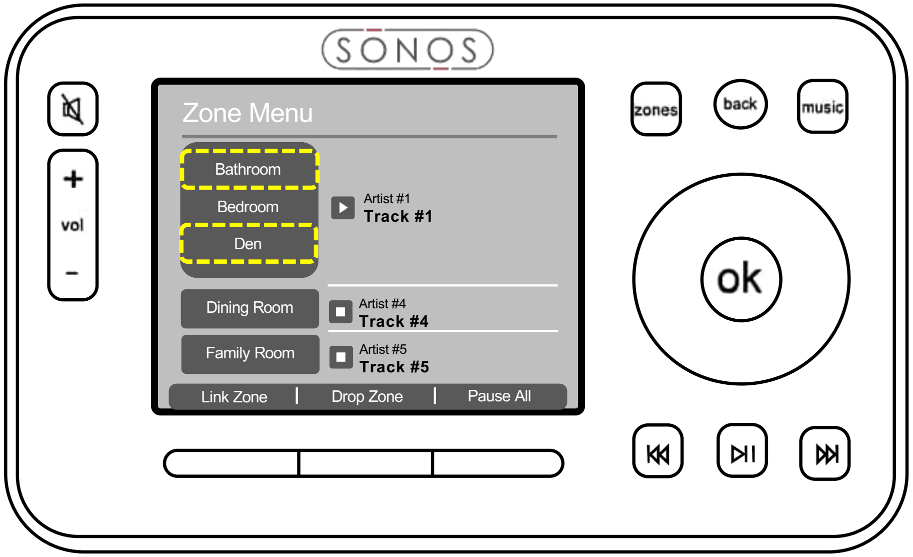
Sonos's 2005 Ad-Hoc Grouping – No Saving of Groups


SONOS
Zone Menu
Bathroom
Bedroom
Artist #1
Track #1
Den
Artist #3
Track #3
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Link Zone
Drop Zone
Pause All
zones
back
music
vol
ok
SONOS
Zone Menu
Select a zone to link to:
Bathroom + Bedroom
Den
Dining Room
Family Room
[All Zones – Party Mode]
zones
back
music
vol
ok

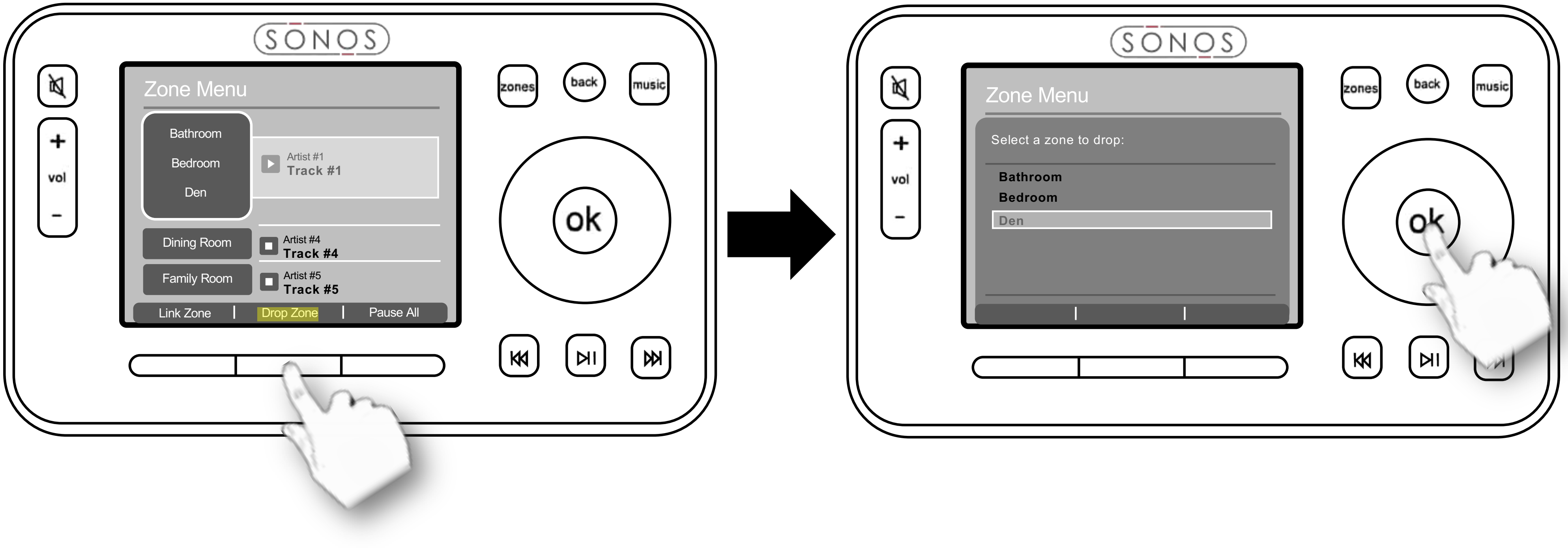
Sonos’s 2005 Ad-Hoc Grouping – No Saving of Groups


SONOS
Zone Menu
Bathroom
Artist #1
Track #1
Bedroom
Artist #2
Track #2
Den
Artist #3
Track #3
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Link Zone
Pause All
zones
back
music
ok
vol
SONOS
Zone Menu
Bathroom
Bedroom
Den
Artist #1
Track #1
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Link Zone
Drop Zone
Pause All
zones
back
music
ok
vol

Sonos's 2005 Ad-Hoc Grouping – No Saving of Groups


SONOS
Zone Menu
Bathroom
Bedroom
Den
Artist #1
Track #1
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Link Zone
Drop Zone
Pause All
vol
+
−
zones
back
music
ok

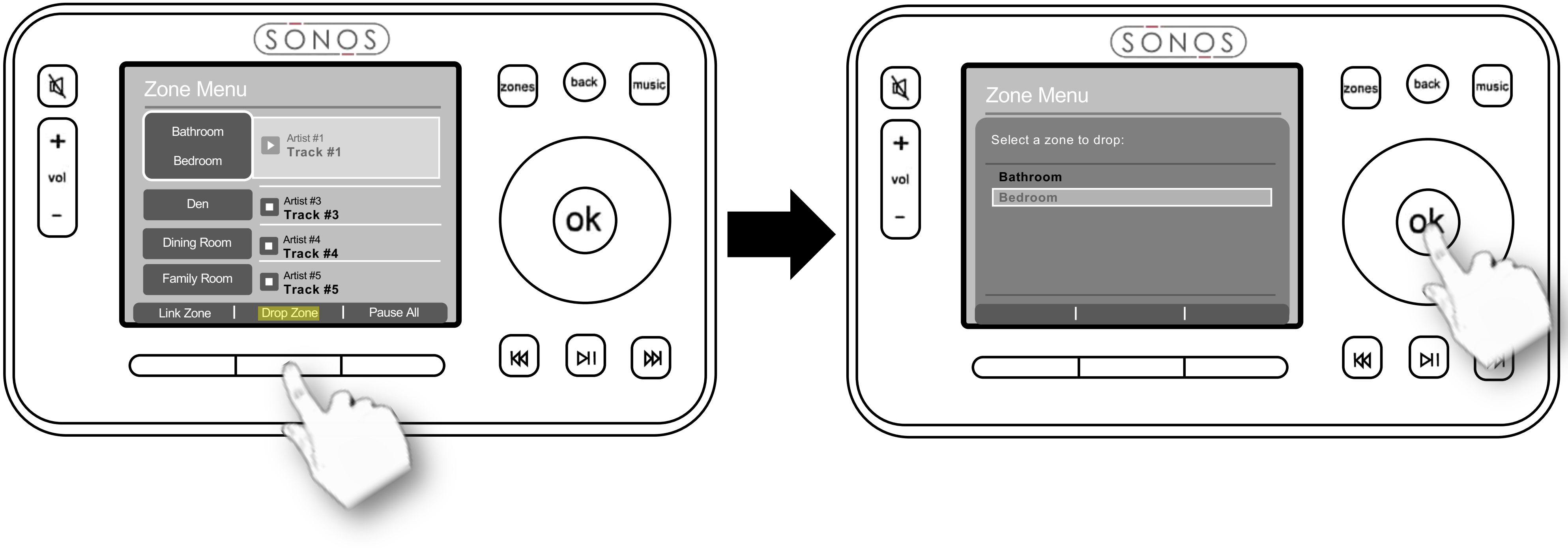
Sonos's 2005 Ad-Hoc Grouping – No Saving of Groups


SONOS
zones
back
music
vol
ok
Zone Menu
Bathroom
Bedroom
Den
Artist #1
Track #1
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Link Zone
Drop Zone
Pause All
SONOS
zones
back
music
vol
ok
Zone Menu

Select a zone to drop:

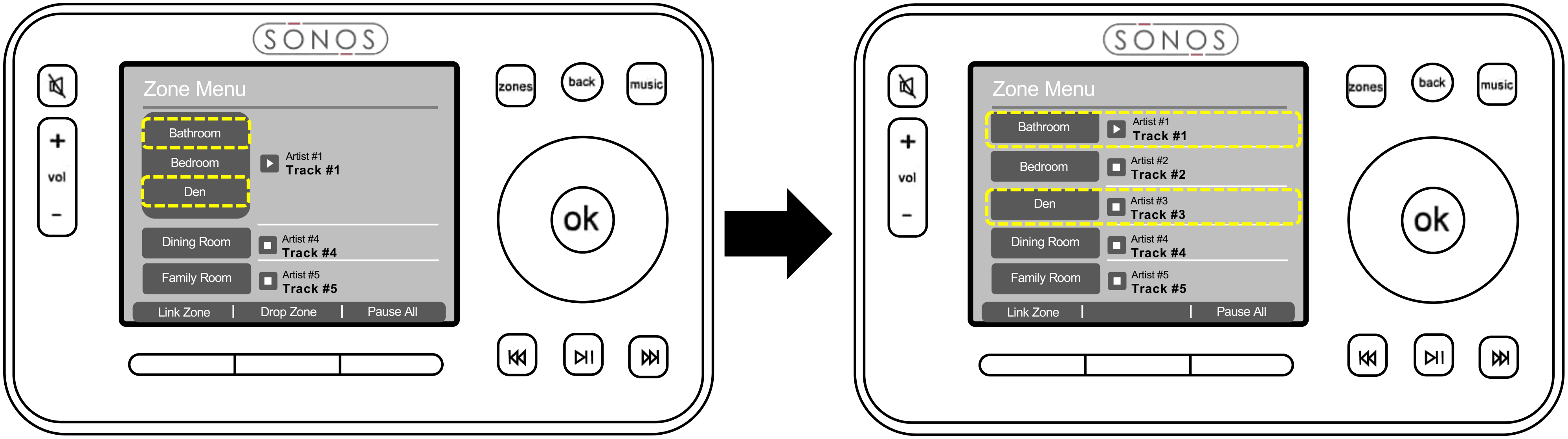
Bathroom
Bedroom
Den

Sonos's 2005 Ad-Hoc Grouping – No Saving of Groups

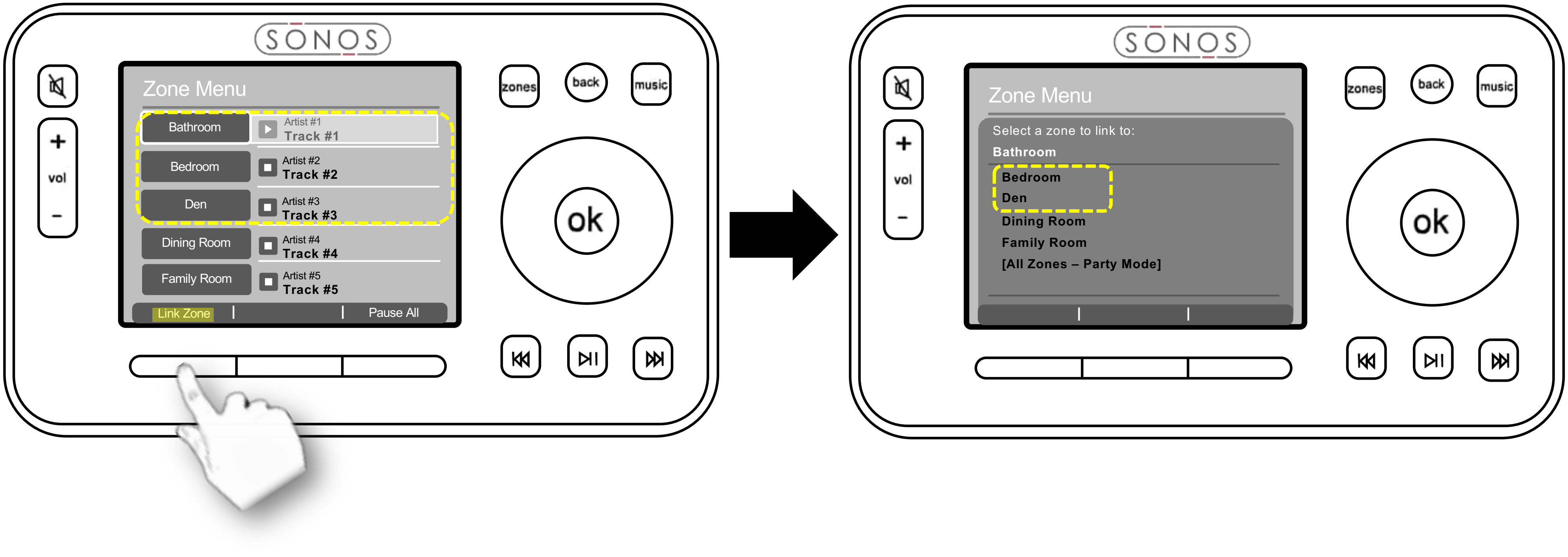

SONOS
Zone Menu
Bathroom
Bedroom
Artist #1
Track #1
Den
Artist #3
Track #3
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Link Zone
Drop Zone
Pause All
zones
back
music
ok
vol
+
–
SONOS
Zone Menu
Bathroom
Bedroom
zones
back
music
ok
vol
+
–

Select a zone to drop:

Sonos's 2005 Ad-Hoc Grouping – No Saving of Groups


SONOS
Zone Menu
Bathroom
Bedroom
Den
Artist #1
Track #1
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Link Zone
Drop Zone
Pause All
zones
back
music
ok
vol
SONOS
Zone Menu
Bathroom
Artist #1
Track #1
Bedroom
Artist #2
Track #2
Den
Artist #3
Track #3
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Link Zone
Pause All
zones
back
music
ok
vol

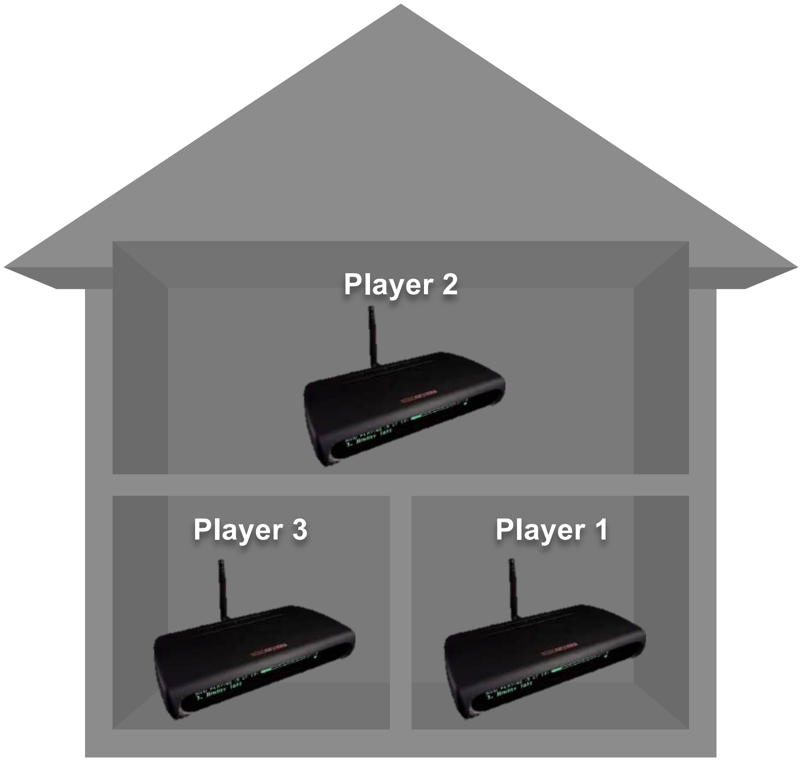
Sonos's 2005 Ad-Hoc Grouping – No Saving of Groups

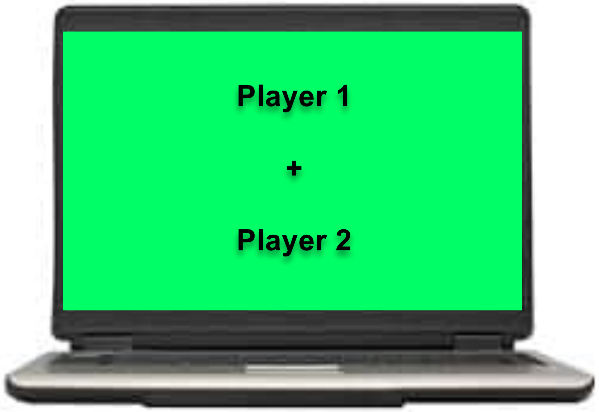

SONOS
Zone Menu
Bathroom
Artist #1
Track #1
Bedroom
Artist #2
Track #2
Den
Artist #3
Track #3
Dining Room
Artist #4
Track #4
Family Room
Artist #5
Track #5
Link Zone
Pause All
zones
back
music
vol
ok
SONOS
Zone Menu
Select a zone to link to:
Bathroom
Bedroom
Den
Dining Room
Family Room
[All Zones – Party Mode]
zones
back
music
vol
ok

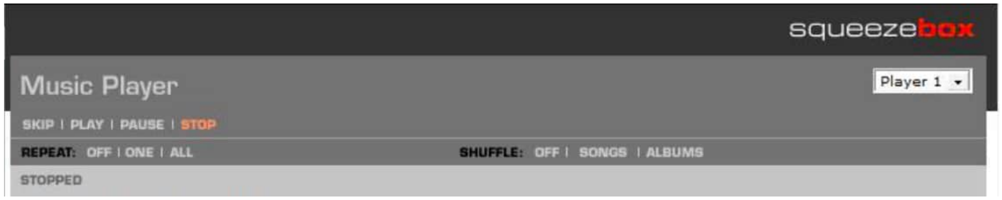
’885 Claim 1 Not Obvious based on Sonos’s 2005 System + Sonos Forums

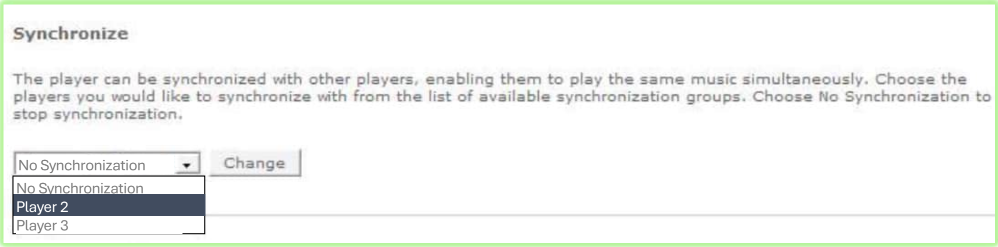
‘885 Claim 1	**Sonos System**	**Sonos Forums**
[1.0] A first zone player comprising . . . **[1.4]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:		
[1.5] **while operating in a standalone mode** in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:		
[1.6] (i) **receiving**, from a network device over a data network, a **first indication that the first zone player has been added to a first zone scene** comprising a first predefined grouping of zone players including at least **the first zone player and a second zone player** that are to be configured for synchronous playback of media when the first zone scene is invoked; and	✗	✗
[1.7] (ii) **receiving**, from the network device over the data network, a **second indication that the first zone player has been added to a second zone scene** comprising a second predefined grouping of zone players including at least **the first zone player and a third zone player** that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;	✗	✗
[1.8] **after receiving the first and second indications, continuing to operate in the standalone mode** until a given one of the first and second zone scenes has been selected for invocation;	✗	✗
[1.9] **after the given one of the first and second zone scenes has been selected for invocation, receiving**, from the network device over the data network, an **instruction to operate in accordance with a given one of the first and second zone scenes** respectively comprising a given one of the first and second predefined groupings of zone players; and	✗	✗
[1.10] **based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings** of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.	✗	✗

Squeezebox Ad-Hoc Grouping


Player 2
Player 3
Player 1


Player 1
+
Player 2

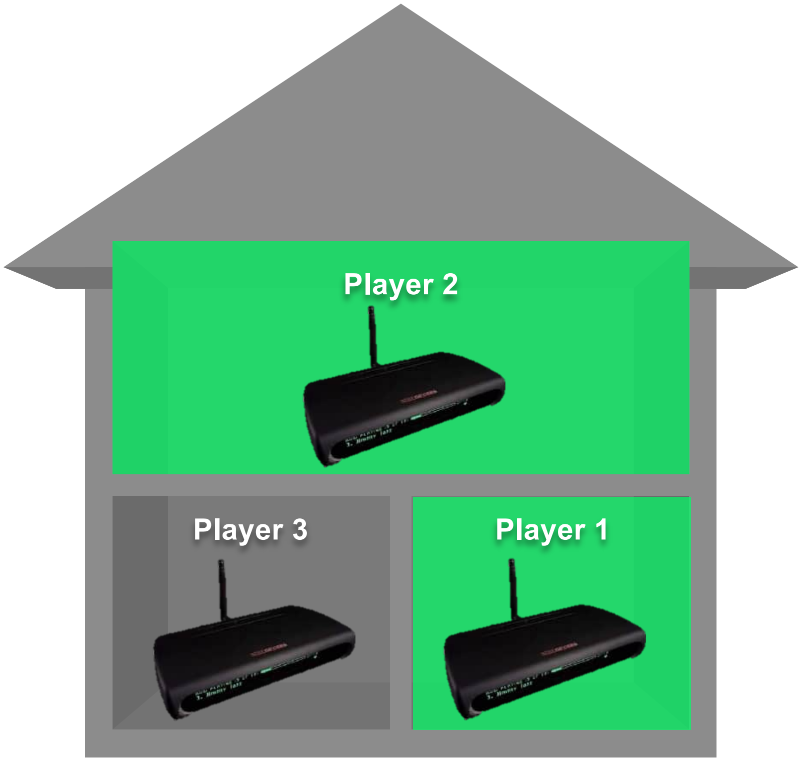

squeezebox
Music Player
Player 1
SKIP | PLAY | PAUSE | STOP
REPEAT: OFF | ONE | ALL
SHUFFLE: OFF | SONGS | ALBUMS
STOPPED

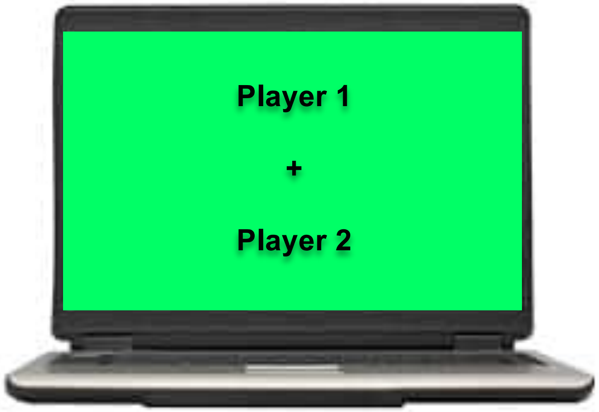

Synchronize

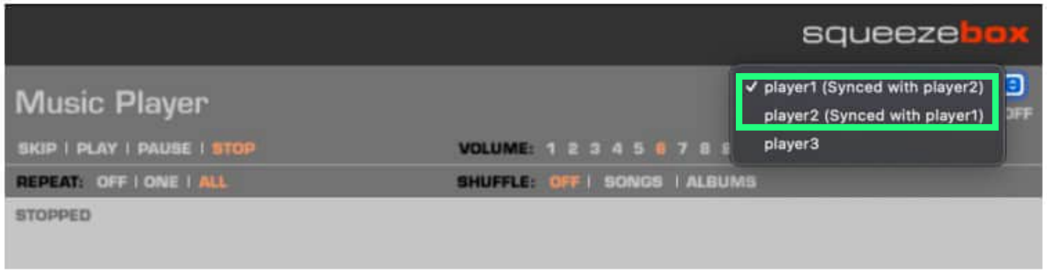
The player can be synchronized with other players, enabling them to play the same music simultaneously. Choose the players you would like to synchronize with from the list of available synchronization groups. Choose No Synchronization to stop synchronization.

No Synchronization
Change
No Synchronization
Player 2
Player 3

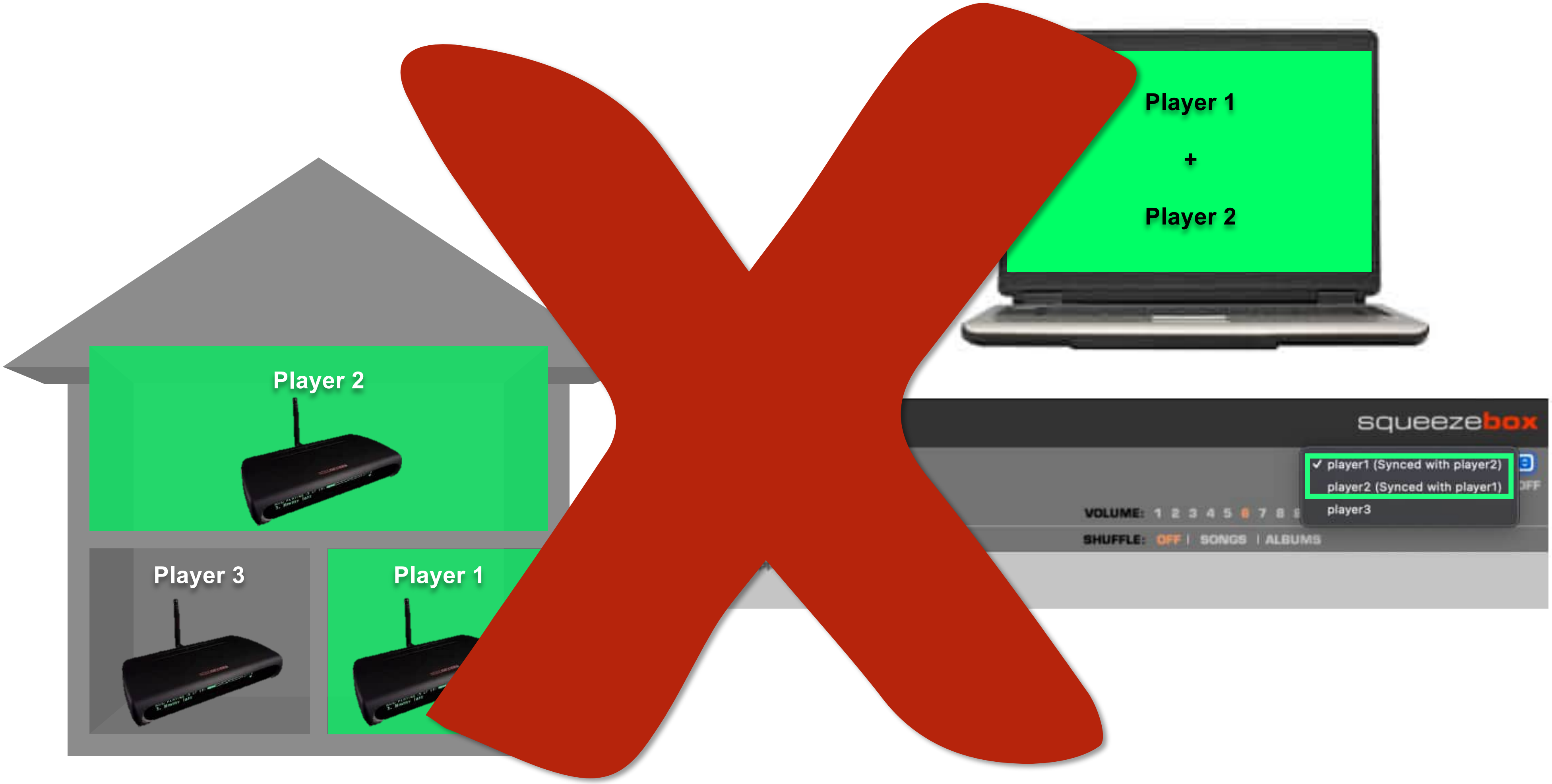
Squeezebox Ad-Hoc Grouping – Groups Can Only Exist in Invoked State


Player 2
Player 3
Player 1

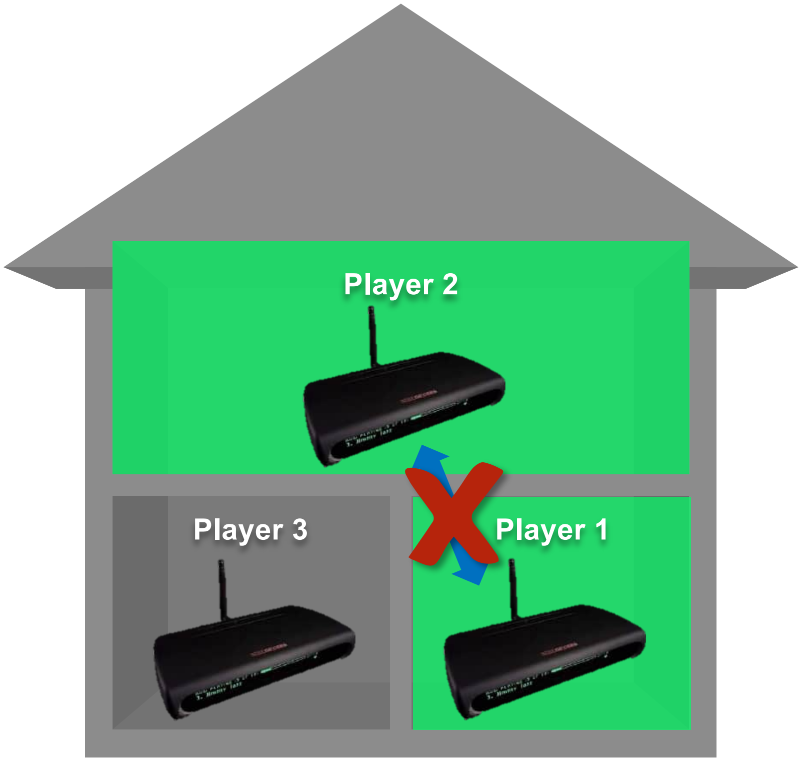

Player 1
+
Player 2

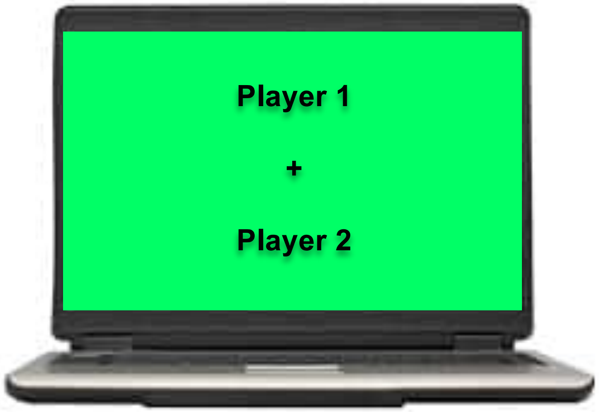

squeezebox
Music Player
✓ player1 (Synced with player2)
player2 (Synced with player1)
player3
SKIP | PLAY | PAUSE | STOP
VOLUME: 1 2 3 4 5 6 7 8
REPEAT: OFF | ONE | ALL
SHUFFLE: OFF | SONGS | ALBUMS
STOPPED

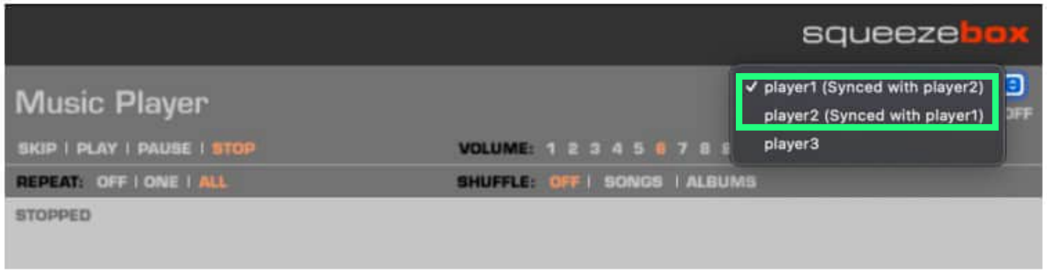
Squeezebox Ad-Hoc Grouping – No “Indication” of Being Added to “Zone Scene”


Player 1
+
Player 2
Player 2
Player 3
Player 1
squeezebox
✓ player1 (Synced with player2)
player2 (Synced with player1)
player3
VOLUME: 1 2 3 4 5 6 7 8
SHUFFLE: OFF | SONGS | ALBUMS

Squeezebox Ad-Hoc Grouping – No Coordination


Player 2
Player 3
Player 1


Player 1
+
Player 2

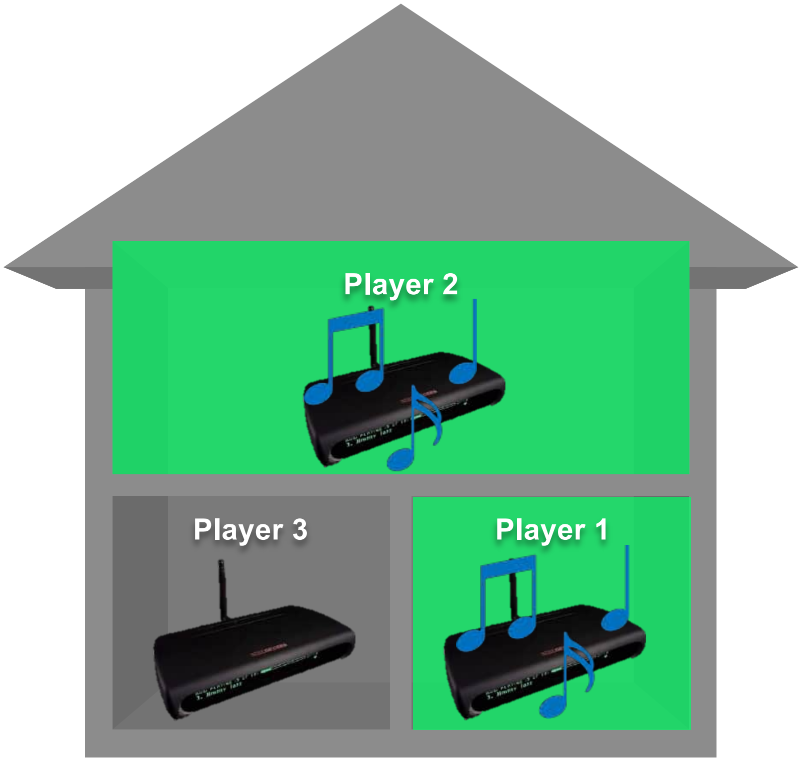

squeezebox
Music Player
SKIP | PLAY | PAUSE | STOP
VOLUME: 1 2 3 4 5 6 7 8
REPEAT: OFF | ONE | ALL
SHUFFLE: OFF | SONGS | ALBUMS

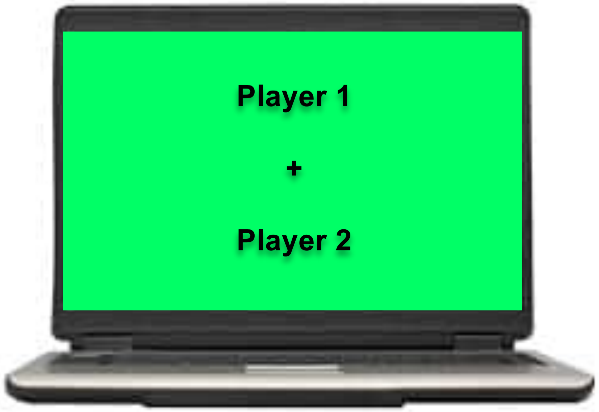
✓ player1 (Synced with player2)
player2 (Synced with player1)
player3

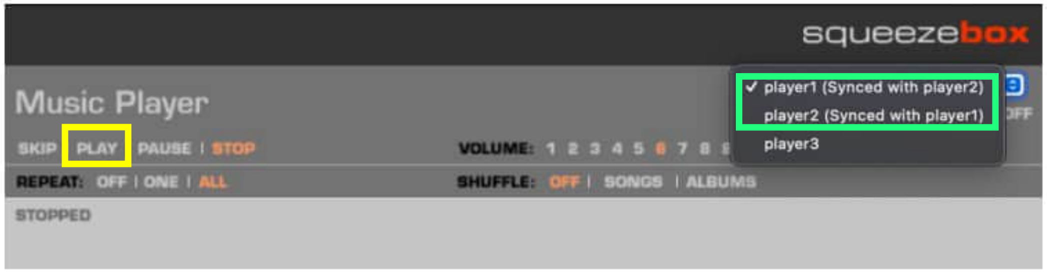
STOPPED

EXHIBIT A - FILED UNDER SEAL

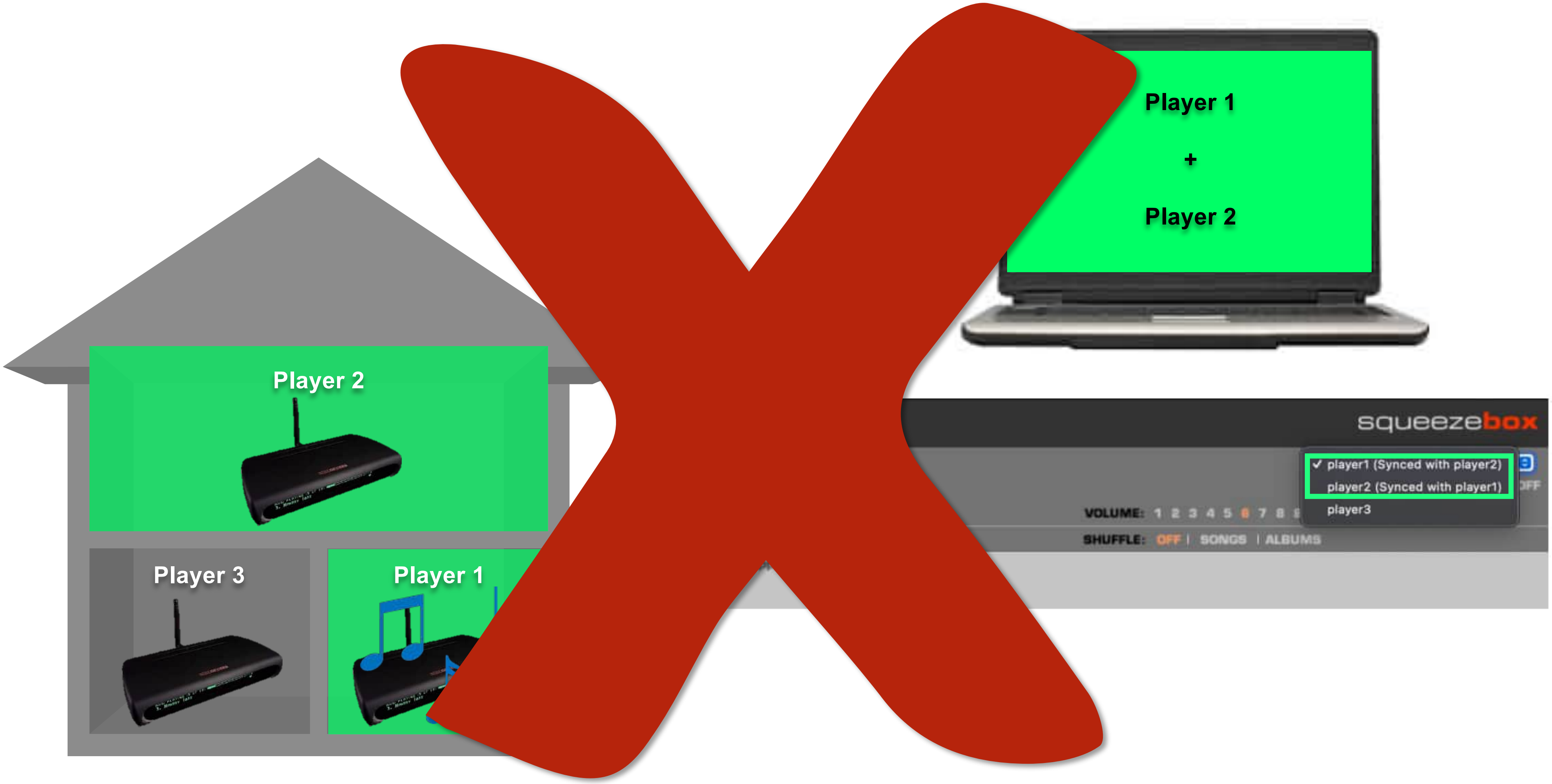
Squeezebox Ad-Hoc Grouping – Groups Can Only Exist in Invoked State


Player 2
Player 3
Player 1

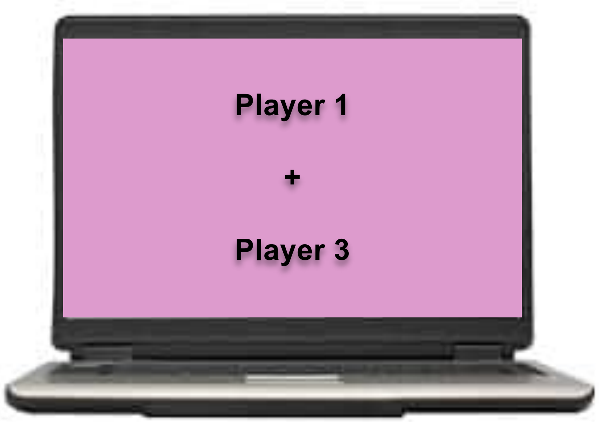

Player 1
+
Player 2

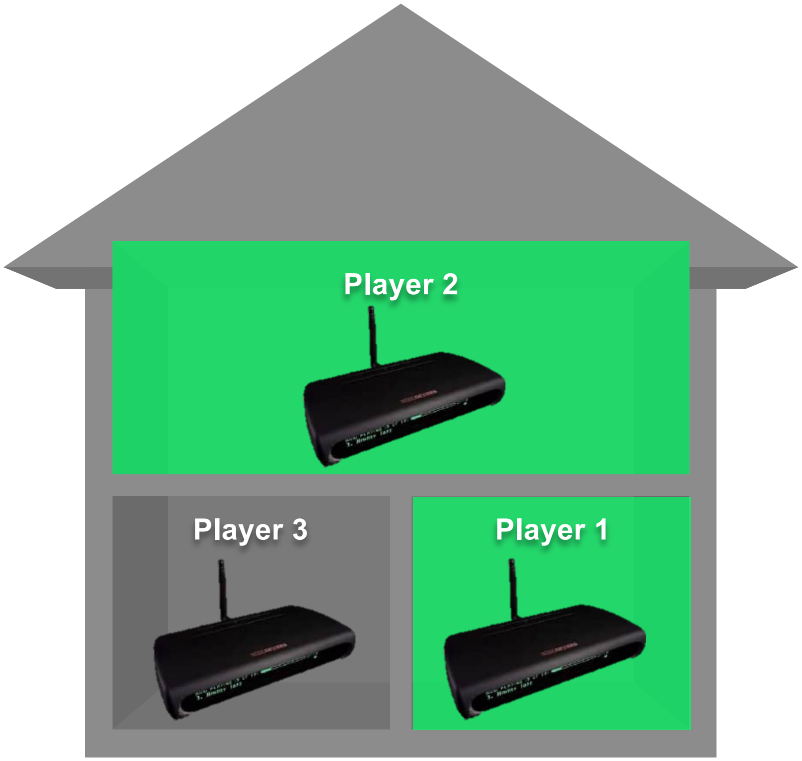

squeezebox
Music Player
SKIP
PLAY
PAUSE | STOP
VOLUME: 1 2 3 4 5 6 7 8
REPEAT: OFF | ONE | ALL
SHUFFLE: OFF | SONGS | ALBUMS
STOPPED
✓ player1 (Synced with player2)
player2 (Synced with player1)
player3

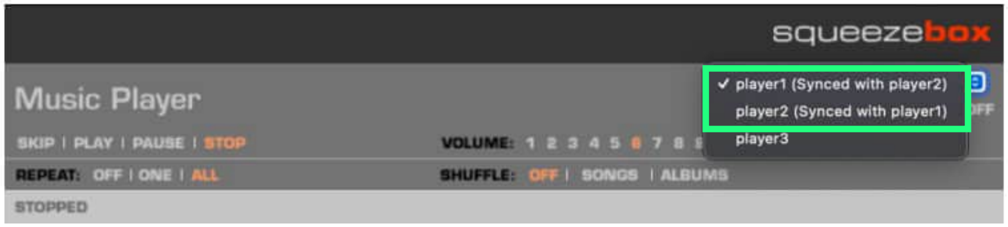
Squeezebox Ad-Hoc Grouping – No Standalone Use

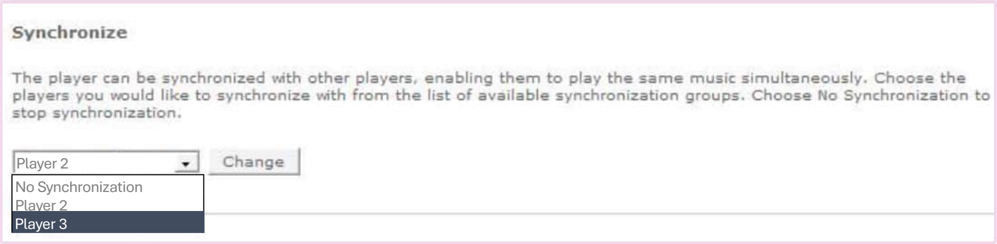

Player 1
+
Player 2
Player 2
Player 3
Player 1
squeezebox
✓ player1 (Synced with player2)
player2 (Synced with player1)
player3
VOLUME: 1 2 3 4 5 6 7 8 9
SHUFFLE: OFF | SONGS | ALBUMS

Squeezebox Ad-Hoc Grouping – Groups Can Only Exist in Invoked State


Player 1
+
Player 3


Player 2
Player 3
Player 1


squeezebox
Music Player
SKIP | PLAY | PAUSE | STOP
VOLUME: 1 2 3 4 5 6 7 8
REPEAT: OFF | ONE | ALL
SHUFFLE: OFF | SONGS | ALBUMS
STOPPED
✓ player1 (Synced with player2)
player2 (Synced with player1)
player3



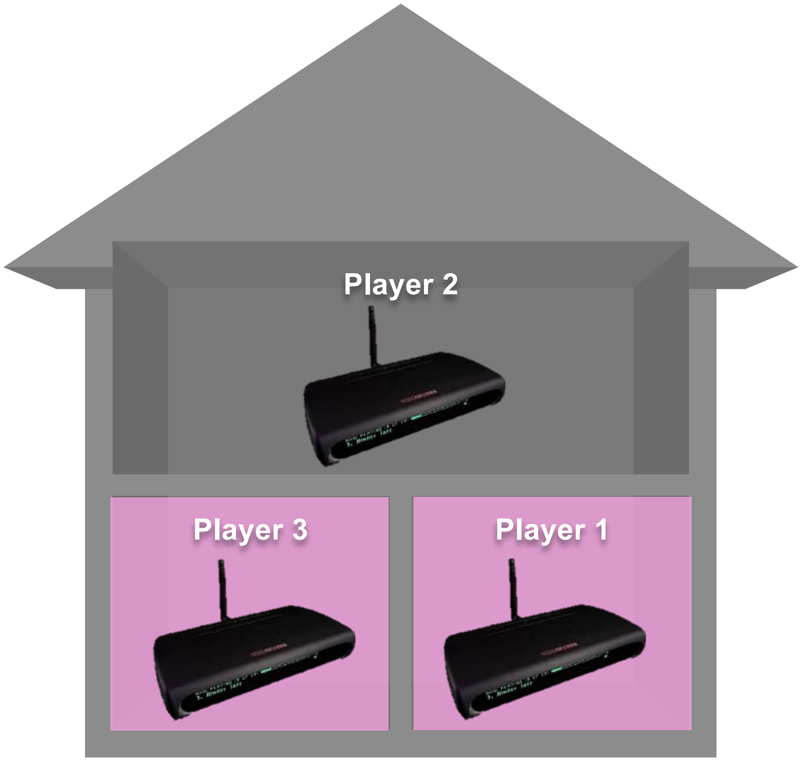
Synchronize

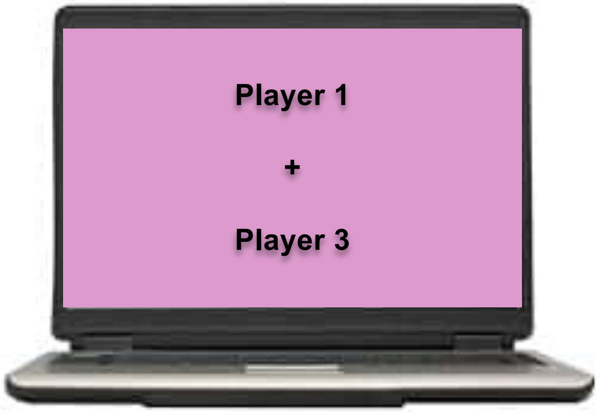
The player can be synchronized with other players, enabling them to play the same music simultaneously. Choose the players you would like to synchronize with from the list of available synchronization groups. Choose No Synchronization to stop synchronization.

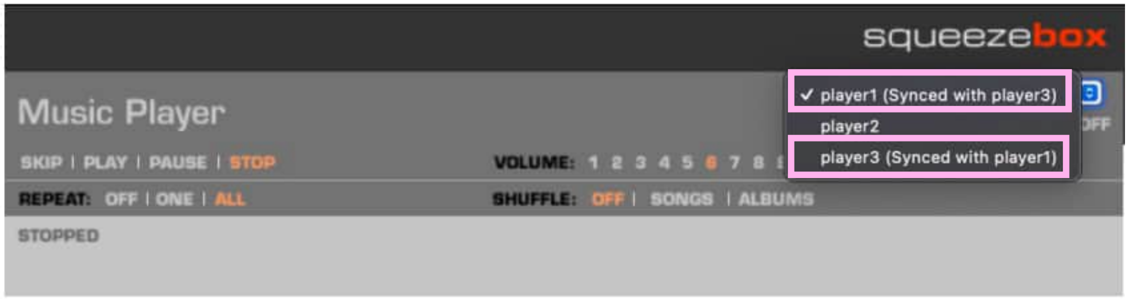
Player 2
Change
No Synchronization
Player 2
Player 3

EXHIBIT A - FILED UNDER SEAL

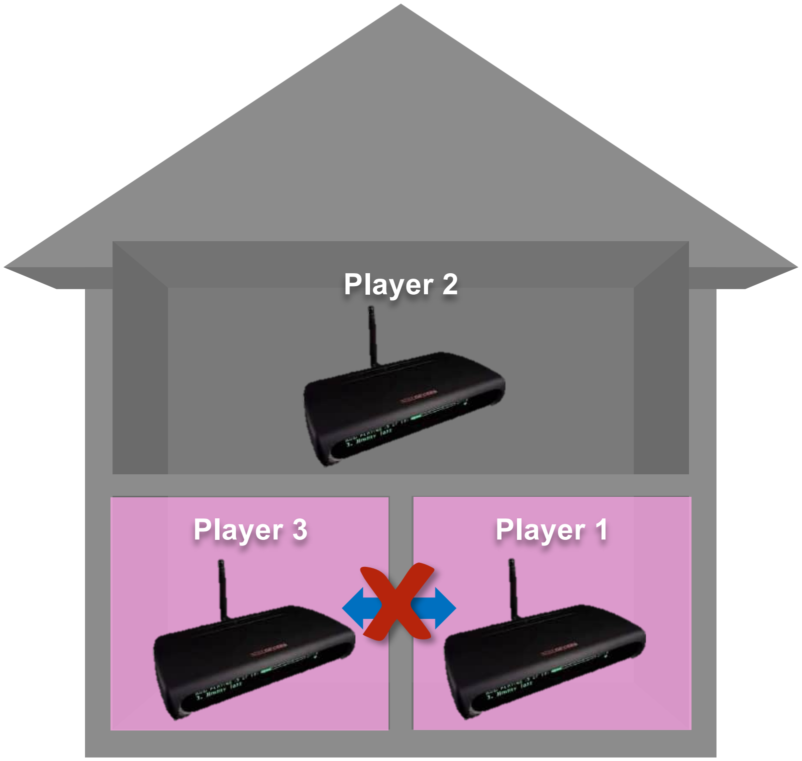
Squeezebox Ad-Hoc Grouping – Groups Can Only Exist in Invoked State

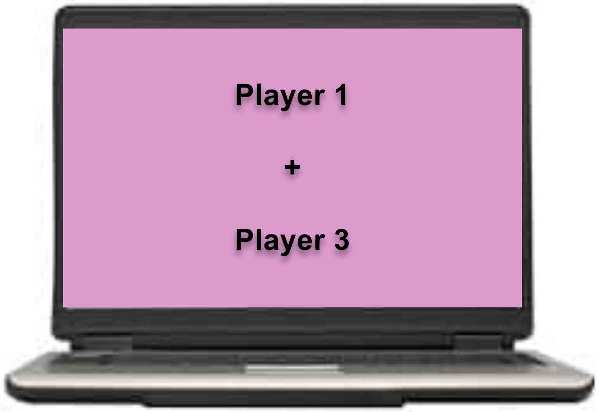

Player 2
Player 3
Player 1

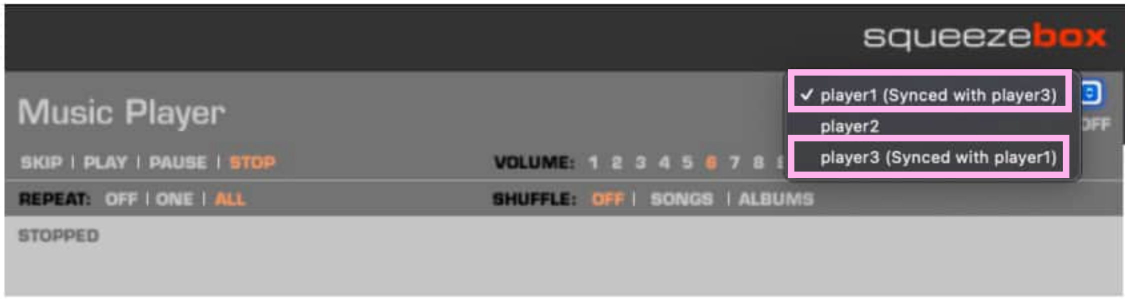

Player 1
+
Player 3


squeezebox
Music Player
✓ player1 (Synced with player3)
player2
player3 (Synced with player1)
SKIP | PLAY | PAUSE | STOP
VOLUME: 1 2 3 4 5 6 7 8
REPEAT: OFF | ONE | ALL
SHUFFLE: OFF | SONGS | ALBUMS
STOPPED

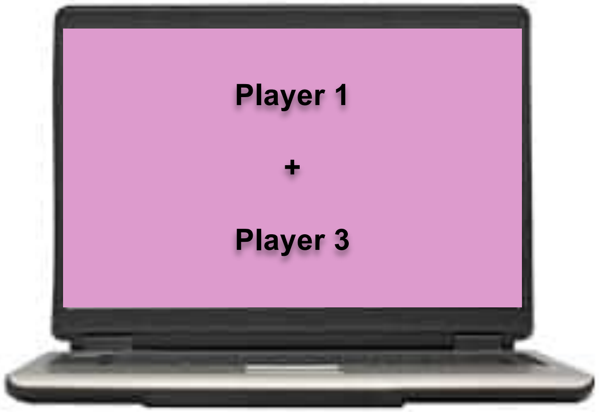
Squeezebox Ad-Hoc Grouping – No Coordination

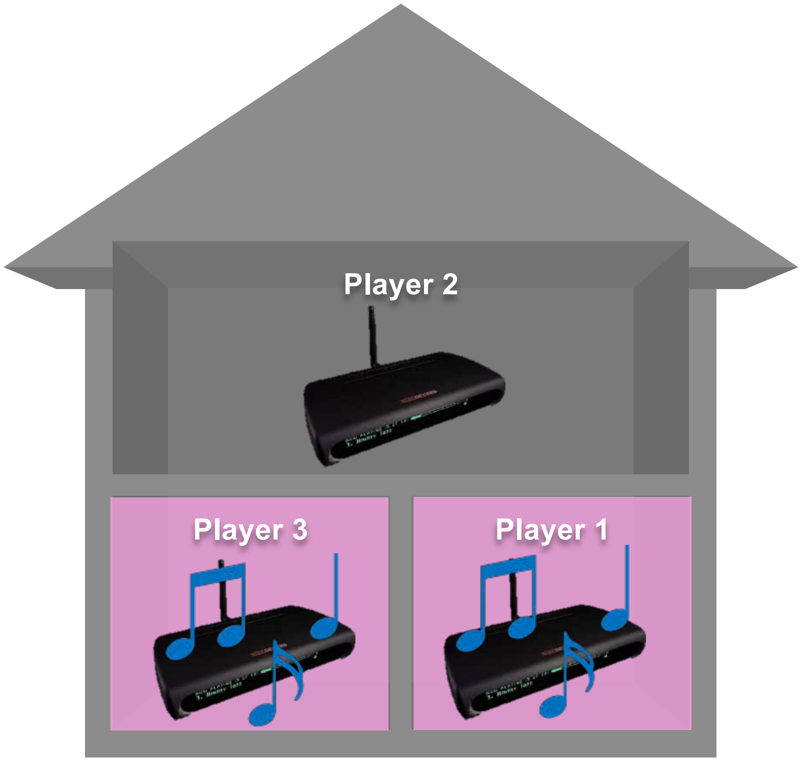

Player 2
Player 3
Player 1

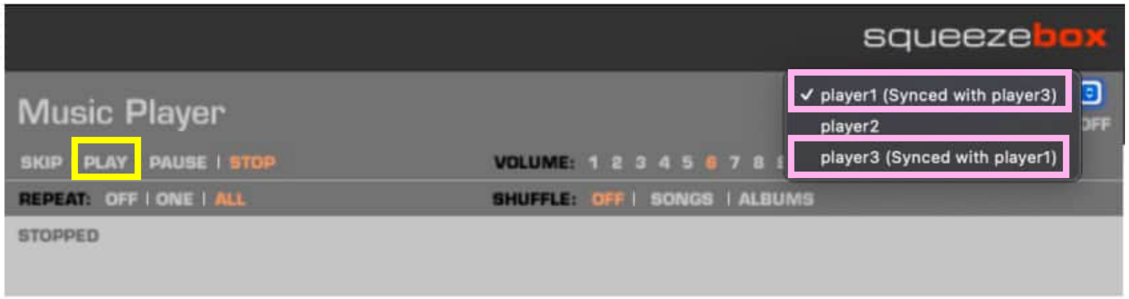

Player 1
+
Player 3


squeezebox
Music Player
SKIP | PLAY | PAUSE | STOP
VOLUME: 1 2 3 4 5 6 7 8
REPEAT: OFF | ONE | ALL
SHUFFLE: OFF | SONGS | ALBUMS
STOPPED
✓ player1 (Synced with player3)
player2
player3 (Synced with player1)
OFF

Squeezebox Ad-Hoc Grouping – Groups Can Only Exist in Invoked State


Player 1
+
Player 3


Player 2
Player 3
Player 1


squeezebox
Music Player
SKIP PLAY PAUSE | STOP
VOLUME: 1 2 3 4 5 6 7 8
REPEAT: OFF | ONE | ALL
SHUFFLE: OFF | SONGS | ALBUMS
STOPPED
✓ player1 (Synced with player3)
player2
player3 (Synced with player1)

Squeezebox Ad-Hoc Grouping – No Overlapping Groups

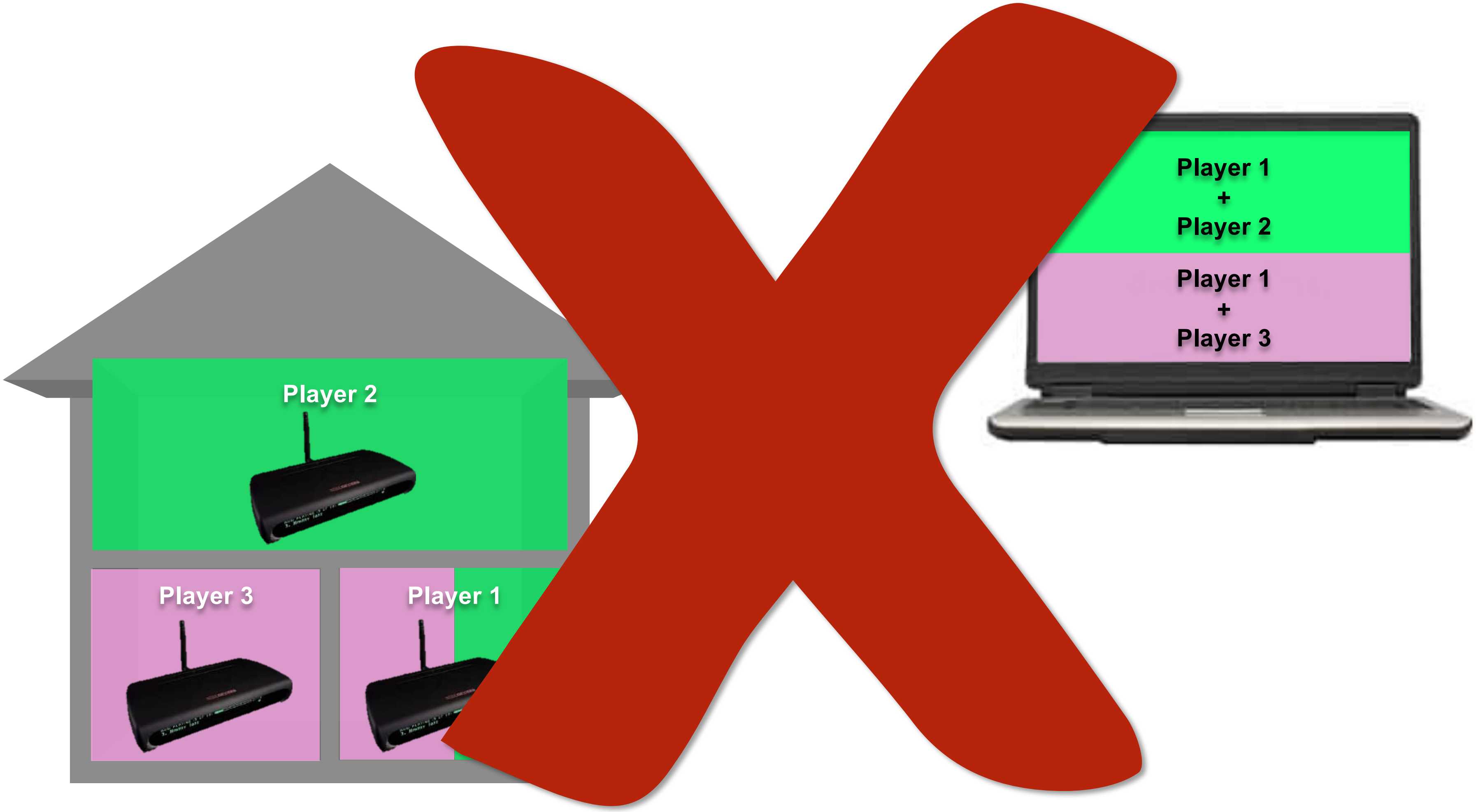
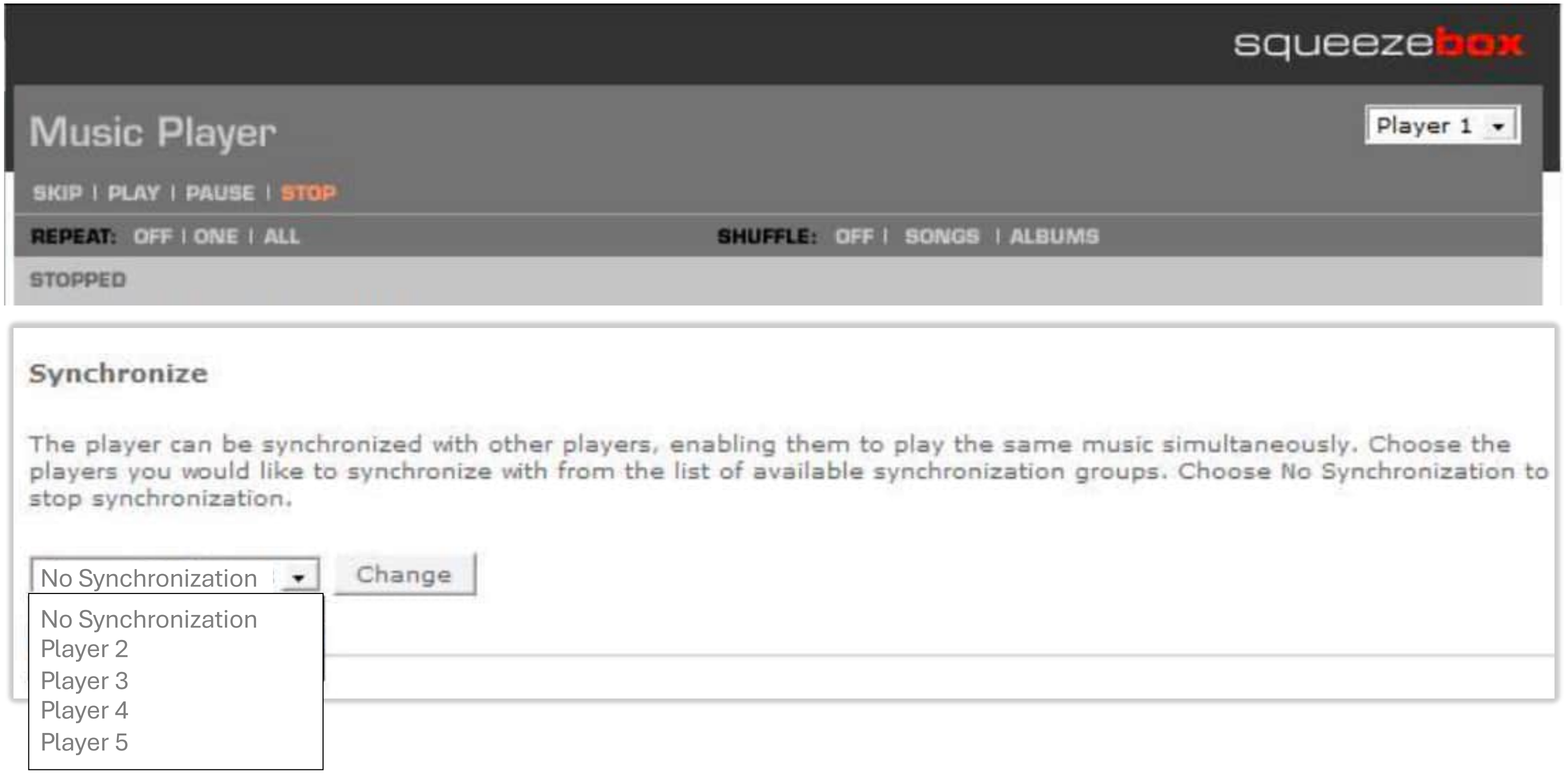

Player 2
Player 3
Player 1
Player 1
+
Player 2
Player 1
+
Player 3

EXHIBIT A - FILED UNDER SEAL

Squeezebox Ad-Hoc Grouping – No Saving of Groups

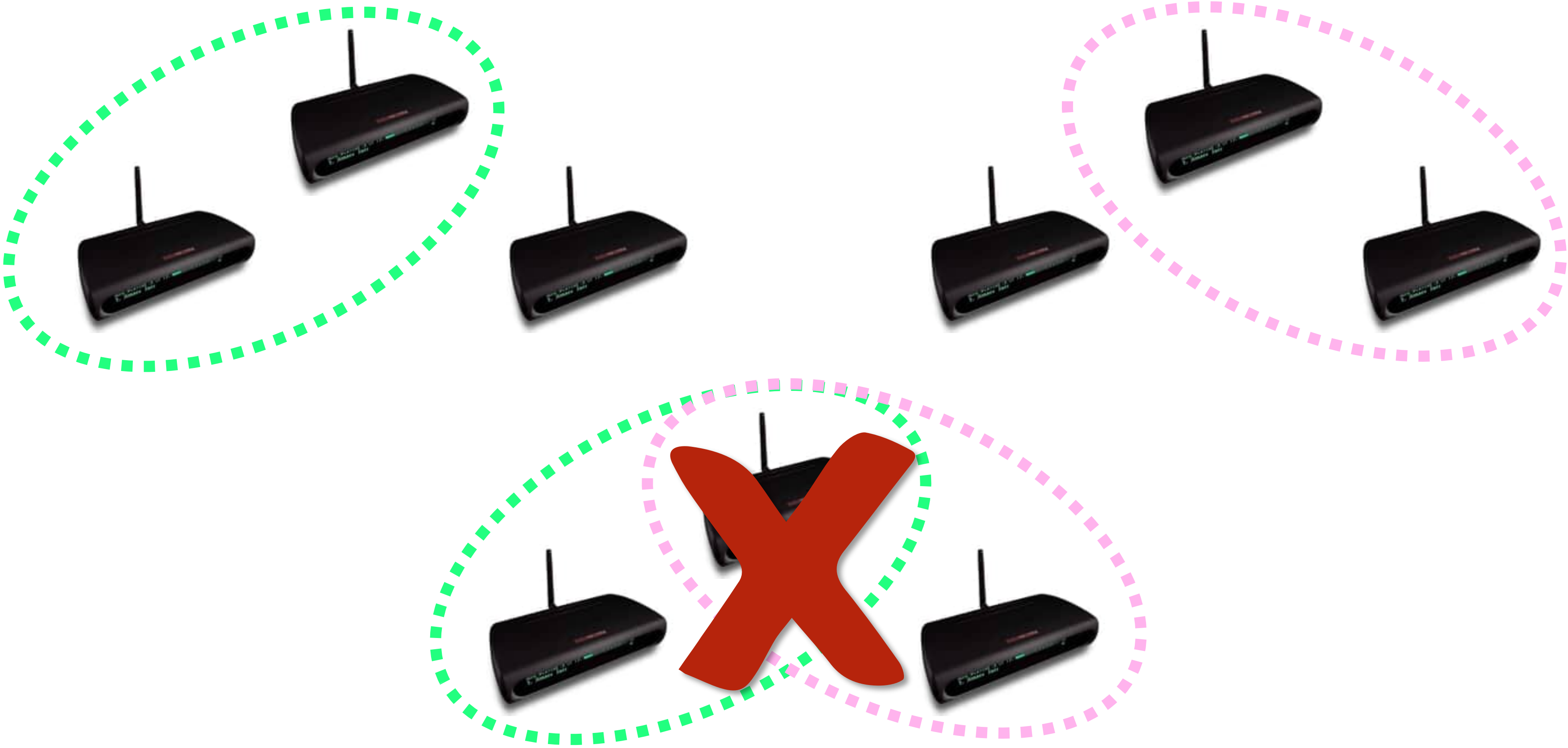

squeezebox
Music Player
Player 1
SKIP | PLAY | PAUSE | STOP
REPEAT: OFF | ONE | ALL
SHUFFLE: OFF | SONGS | ALBUMS
STOPPED

Synchronize

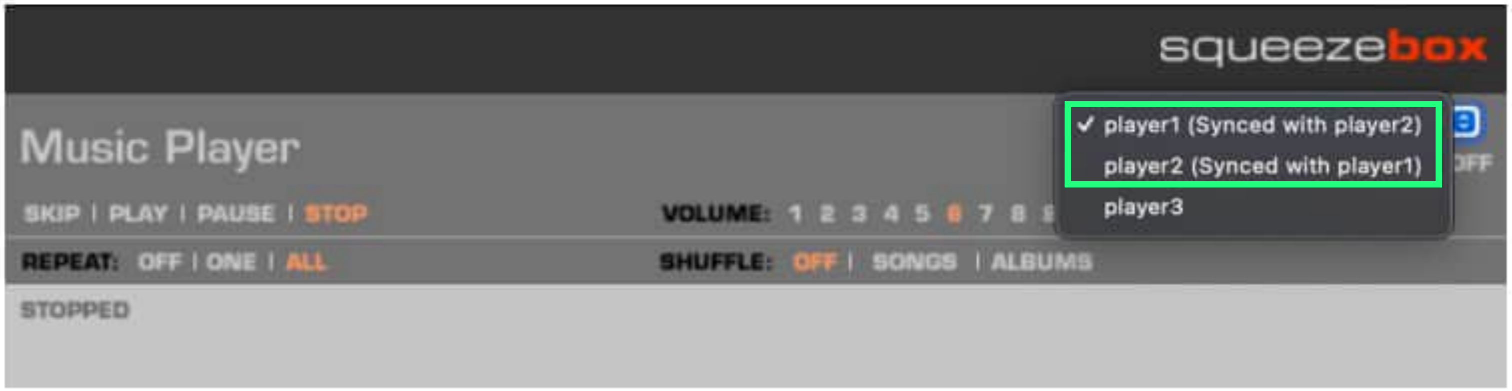
The player can be synchronized with other players, enabling them to play the same music simultaneously. Choose the players you would like to synchronize with from the list of available synchronization groups. Choose No Synchronization to stop synchronization.

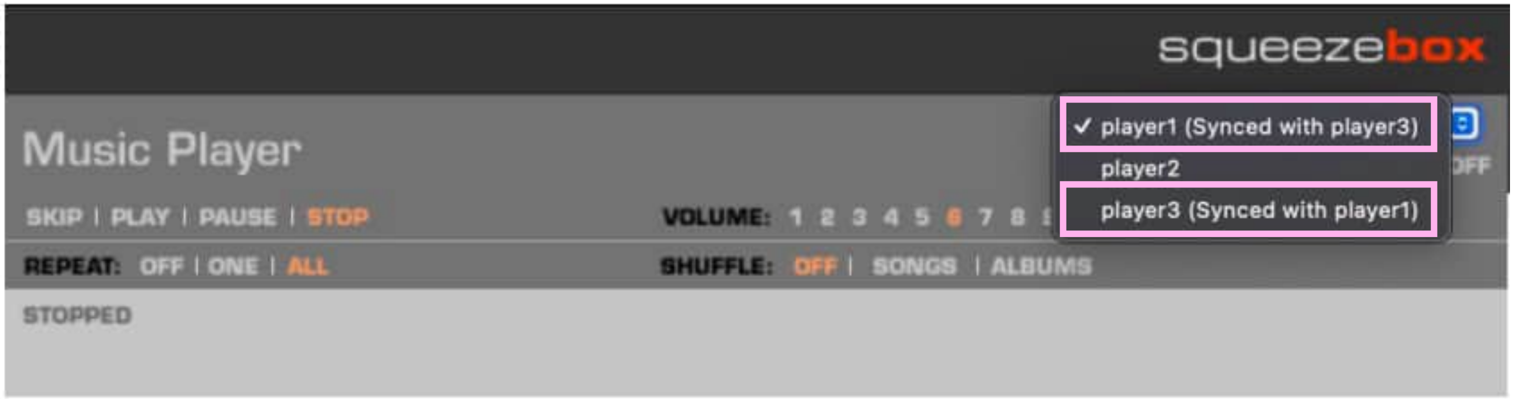
No Synchronization
Change
No Synchronization
Player 2
Player 3
Player 4
Player 5

Squeezebox Ad-Hoc Grouping – No Overlapping Groups

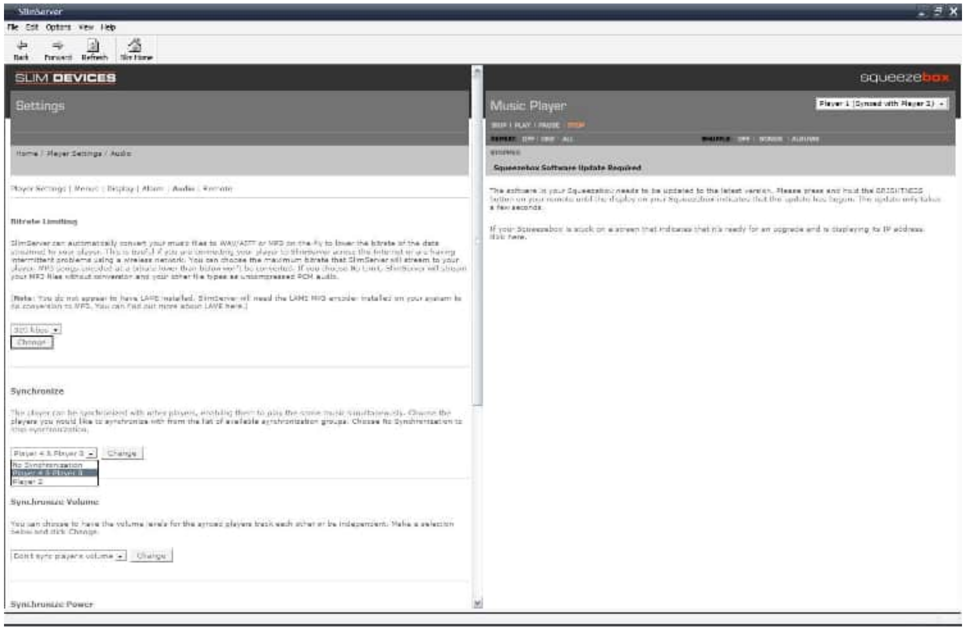


Squeezebox Ad-Hoc Grouping – No Overlapping Groups


squeezebox
Music Player
✓ player1 (Synced with player2)
player2 (Synced with player1)
player3
SKIP | PLAY | PAUSE | STOP
VOLUME: 1 2 3 4 5 6 7 8
REPEAT: OFF | ONE | ALL
SHUFFLE: OFF | SONGS | ALBUMS
STOPPED


squeezebox
Music Player
✓ player1 (Synced with player3)
player2
player3 (Synced with player1)
SKIP | PLAY | PAUSE | STOP
VOLUME: 1 2 3 4 5 6 7 8
REPEAT: OFF | ONE | ALL
SHUFFLE: OFF | SONGS | ALBUMS
STOPPED

Squeezebox Ad-Hoc Grouping – No Overlapping Groups



Home / Player Settings / Audio

Player Settings | Menus | Display | Alarm | Audio | Remote

Bitrate Limiting

SlimServer can automatically convert your music files to WAV/AIFF or MP3 on-the-fly to lower the bitrate of the data streamed to your player. This is useful if you are connecting your player to SlimServer across the Internet or are having intermittent problems using a wireless network. You can choose the maximum bitrate that SlimServer will stream to your player. MP3 songs encoded at a bitrate lower than below won't be converted. If you choose No Limit, SlimServer will stream your MP3 files without conversion and your other file types as uncompressed PCM audio.

(Note: You do not appear to have LAME installed. SlimServer will need the LAME MP3 encoder installed on your system to do conversion to MP3. You can find out more about LAME here.)

320 kbps | Change

Synchronize

This player can be synchronized with other players, enabling them to play the same music simultaneously. Choose the players you would like to synchronize with from the list of available synchronization groups. Choose No Synchronization to stop synchronization.

Player 4 & Player 3 | Change
- No Synchronization
- Player 4 & Player 3
- Player 2

Synchronize Volume

You can choose to have the volume levels for the synced players track each other or be independent. Make a selection below and click Change.

Don't sync players volume | Change

Synchronize Power

Player 1 (Synced with Player 2)

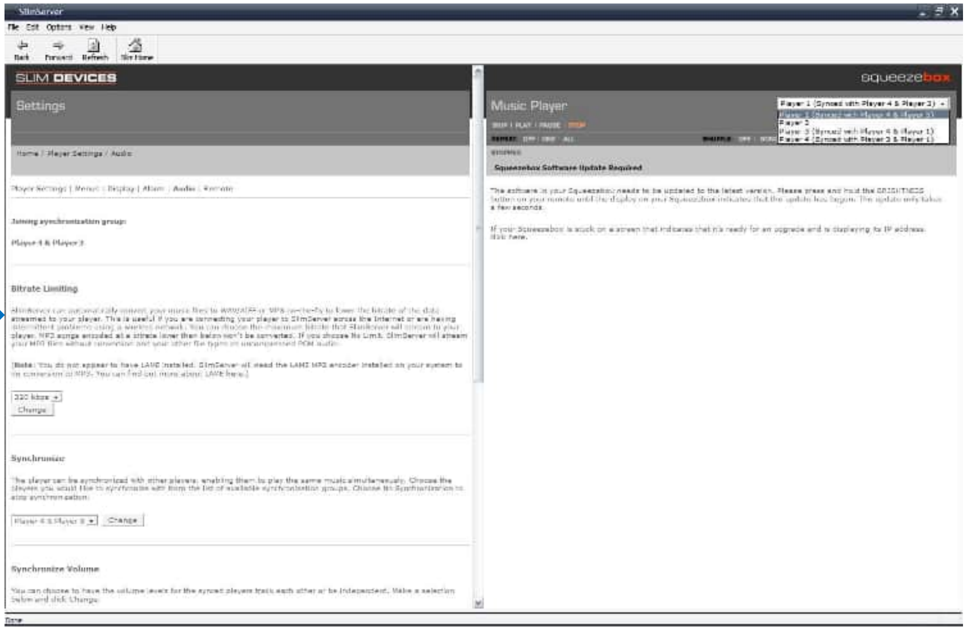
SKIP | PLAY | PAUSE | STOP
REPEAT: OFF | ONE | ALL
SHUFFLE: OFF | SONGS | ALBUMS

STOPPED

Squeezebox Software Update Required

The software in your Squeezebox needs to be updated to the latest version. Please press and hold the BRIGHTNESS button on your remote until the display on your Squeezebox indicates that the update has begun. The update only takes a few seconds.

If your Squeezebox is stuck on a screen that indicates that it's ready for an upgrade and is displaying its IP address, click here.



Home / Player Settings / Audio

Player Settings | Menus | Display | Alarm | Audio | Remote

Joining synchronization group:

Player 4 & Player 3

Bitrate Limiting

SlimServer can automatically convert your music files to WAV/AIFF or MP3 on-the-fly to lower the bitrate of the data streamed to your player. This is useful if you are connecting your player to SlimServer across the Internet or are having intermittent problems using a wireless network. You can choose the maximum bitrate that SlimServer will stream to your player. MP3 songs encoded at a bitrate lower than below won't be converted. If you choose No Limit, SlimServer will stream your MP3 files without conversion and your other file types as uncompressed PCM audio.

(Note: You do not appear to have LAME installed. SlimServer will need the LAME MP3 encoder installed on your system to do conversion to MP3. You can find out more about LAME here.)

320 kbps | Change

Synchronize

This player can be synchronized with other players, enabling them to play the same music simultaneously. Choose the players you would like to synchronize with from the list of available synchronization groups. Choose No Synchronization to stop synchronization.

Player 4 & Player 3 | Change

Synchronize Volume

You can choose to have the volume levels for the synced players track each other or be independent. Make a selection below and click Change.

Player 1 (Synced with Player 4 & Player 3)
- Player 1 (Synced with Player 4 & Player 3)
- Player 2
- Player 3 (Synced with Player 4 & Player 1)
- Player 4 (Synced with Player 3 & Player 1)

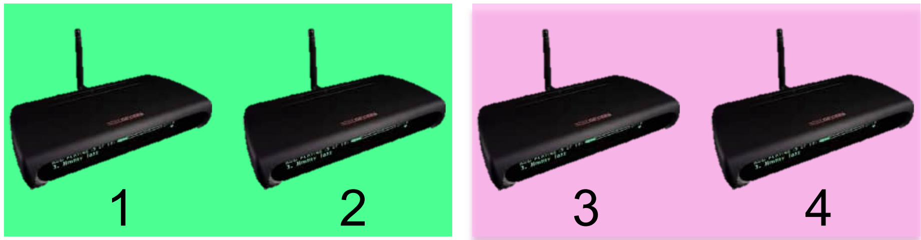
SKIP | PLAY | PAUSE | STOP
REPEAT: OFF | ONE | ALL
SHUFFLE: OFF

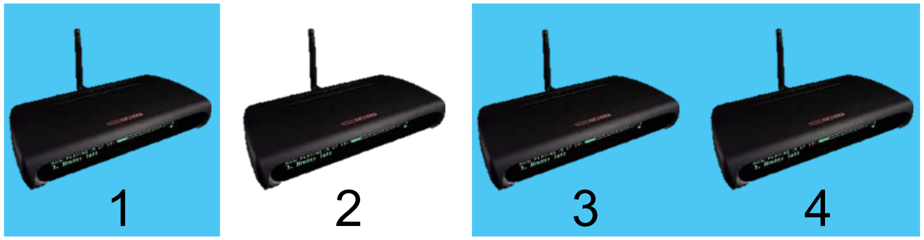
STOPPED

Squeezebox Software Update Required

The software in your Squeezebox needs to be updated to the latest version. Please press and hold the BRIGHTNESS button on your remote until the display on your Squeezebox indicates that the update has begun. The update only takes a few seconds.

If your Squeezebox is stuck on a screen that indicates that it's ready for an upgrade and is displaying its IP address, click here.

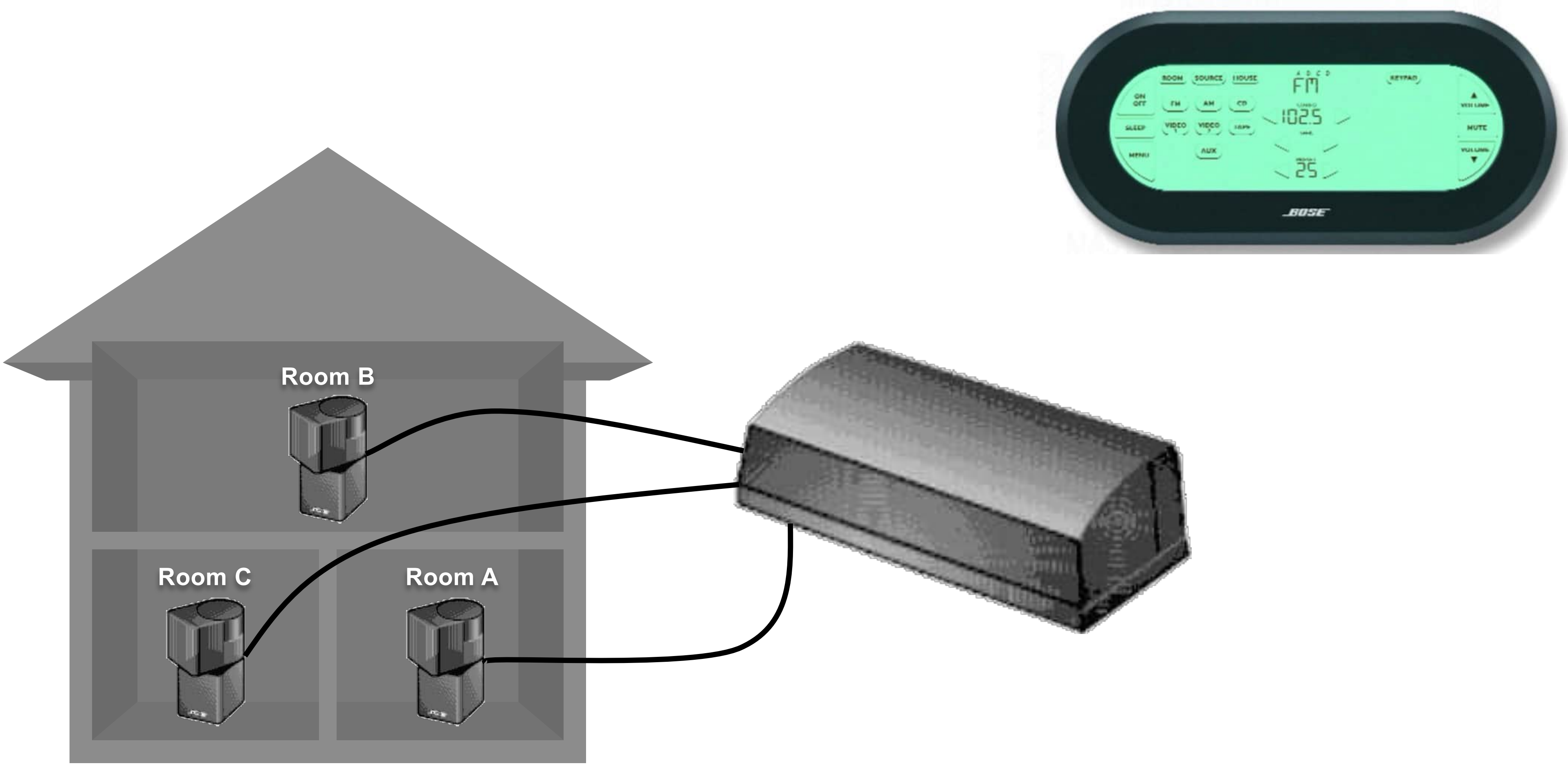




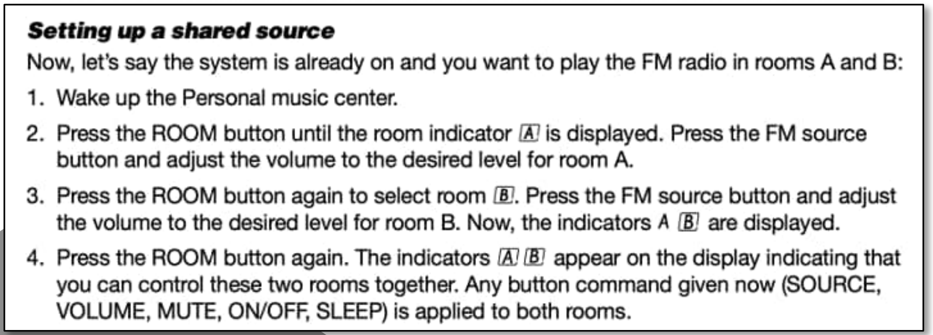
’885 Claim 1 Not Obvious based on Squeezebox

‘885 Claim 1	Squeezebox
[1.0] A first zone player comprising . . . **[1.4]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:	
[1.5] **while operating in a standalone mode** in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:	
[1.6] (i) **receiving**, from a network device over a data network, a **first indication that the first zone player has been added to a first zone scene** comprising a first predefined grouping of zone players including at least **the first zone player and a second zone player** that are to be configured for synchronous playback of media when the first zone scene is invoked; and	✗
[1.7] (ii) **receiving**, from the network device over the data network, a **second indication that the first zone player has been added to a second zone scene** comprising a second predefined grouping of zone players including at least **the first zone player and a third zone player** that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;	✗
[1.8] **after receiving the first and second indications, continuing to operate in the standalone mode** until a given one of the first and second zone scenes has been selected for invocation;	✗
[1.9] **after the given one of the first and second zone scenes has been selected for invocation, receiving**, from the network device over the data network, an **instruction to operate in accordance with a given one of the first and second zone scenes** respectively comprising a given one of the first and second predefined groupings of zone players; and	✗
[1.10] **based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings** of zone players **such that the first zone player is configured to coordinate with at least one other zone player** in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.	✗

Bose Lifestyle 50 Ad-Hoc Grouping


ROOM
SOURCE
HOUSE
FM
102.5
25
BOSE
Room B
Room C
Room A

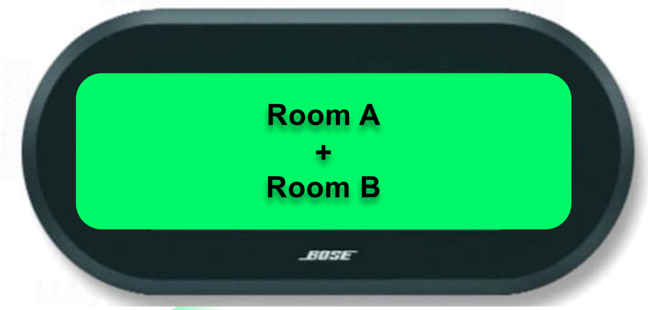
Bose Lifestyle 50 Ad-Hoc Grouping

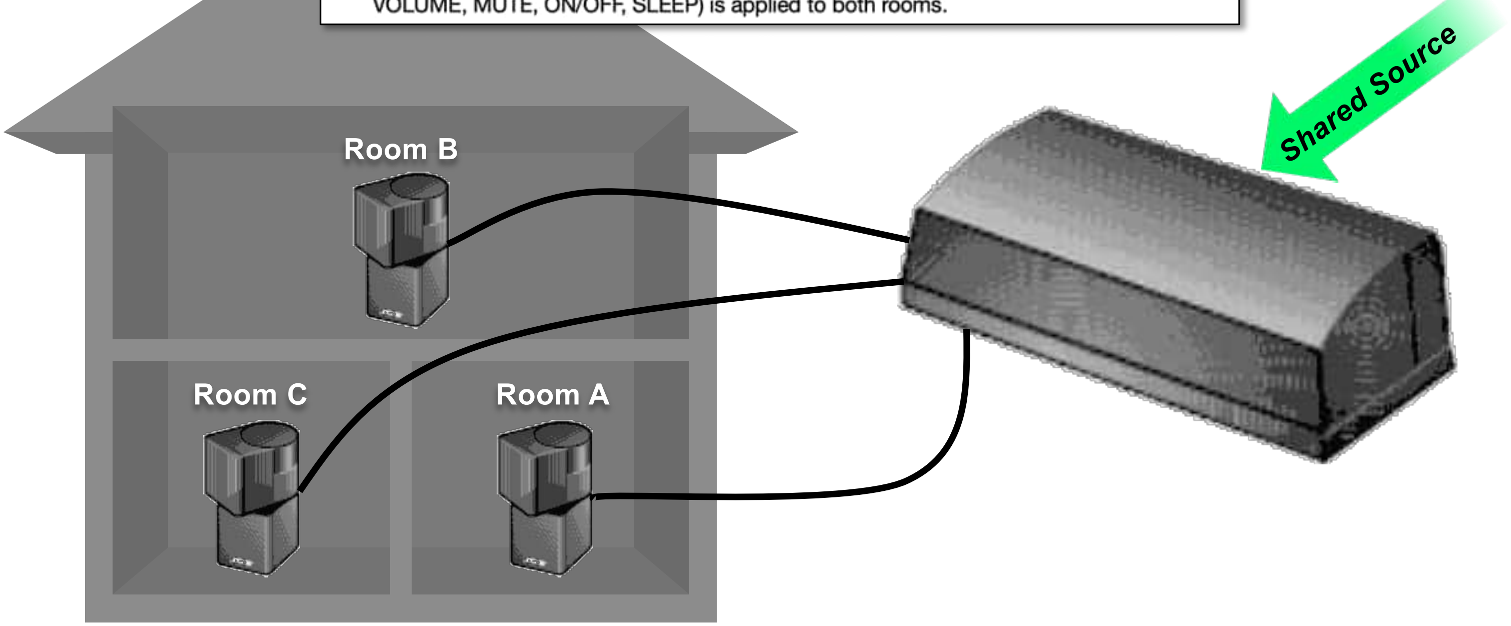


Setting up a shared source

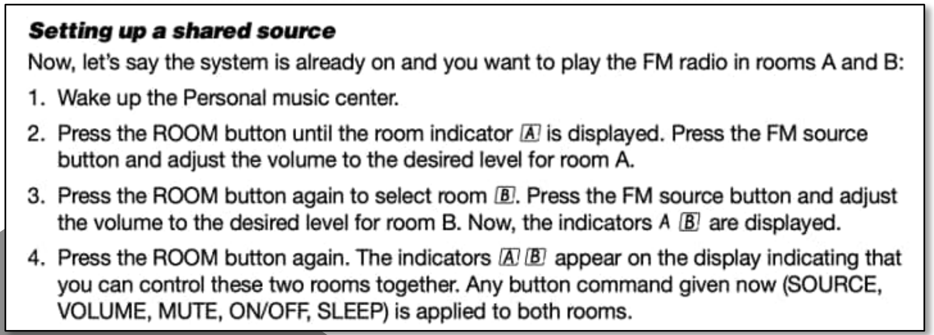
Now, let's say the system is already on and you want to play the FM radio in rooms A and B:

1. Wake up the Personal music center.
2. Press the ROOM button until the room indicator 🄰 is displayed. Press the FM source button and adjust the volume to the desired level for room A.
3. Press the ROOM button again to select room 🄱. Press the FM source button and adjust the volume to the desired level for room B. Now, the indicators A 🄱 are displayed.
4. Press the ROOM button again. The indicators 🄰 🄱 appear on the display indicating that you can control these two rooms together. Any button command given now (SOURCE, VOLUME, MUTE, ON/OFF, SLEEP) is applied to both rooms.





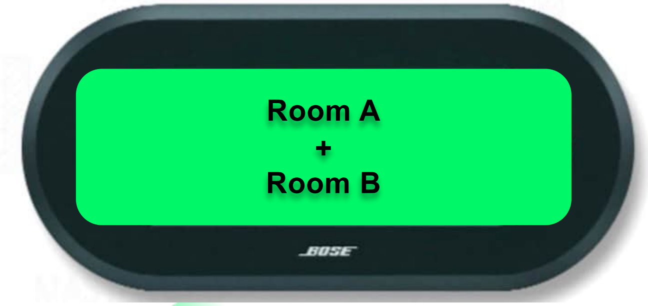
Bose Lifestyle Ad-Hoc Grouping

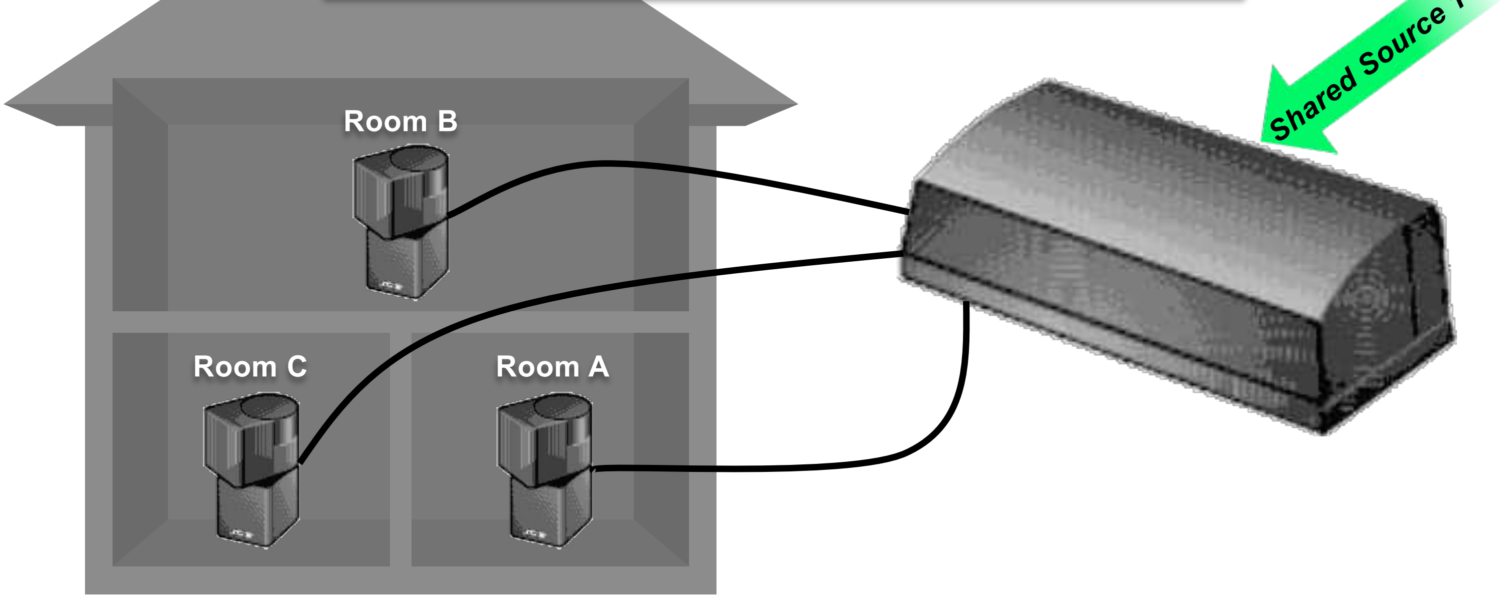


Setting up a shared source

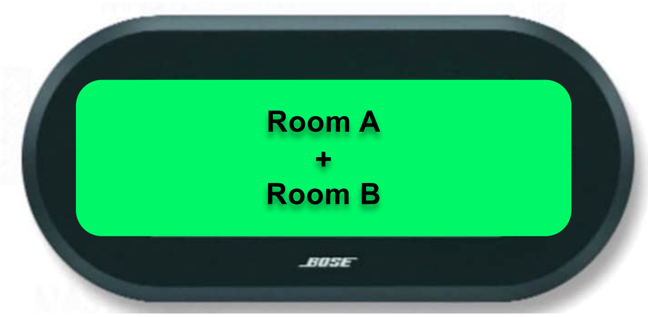
Now, let's say the system is already on and you want to play the FM radio in rooms A and B:

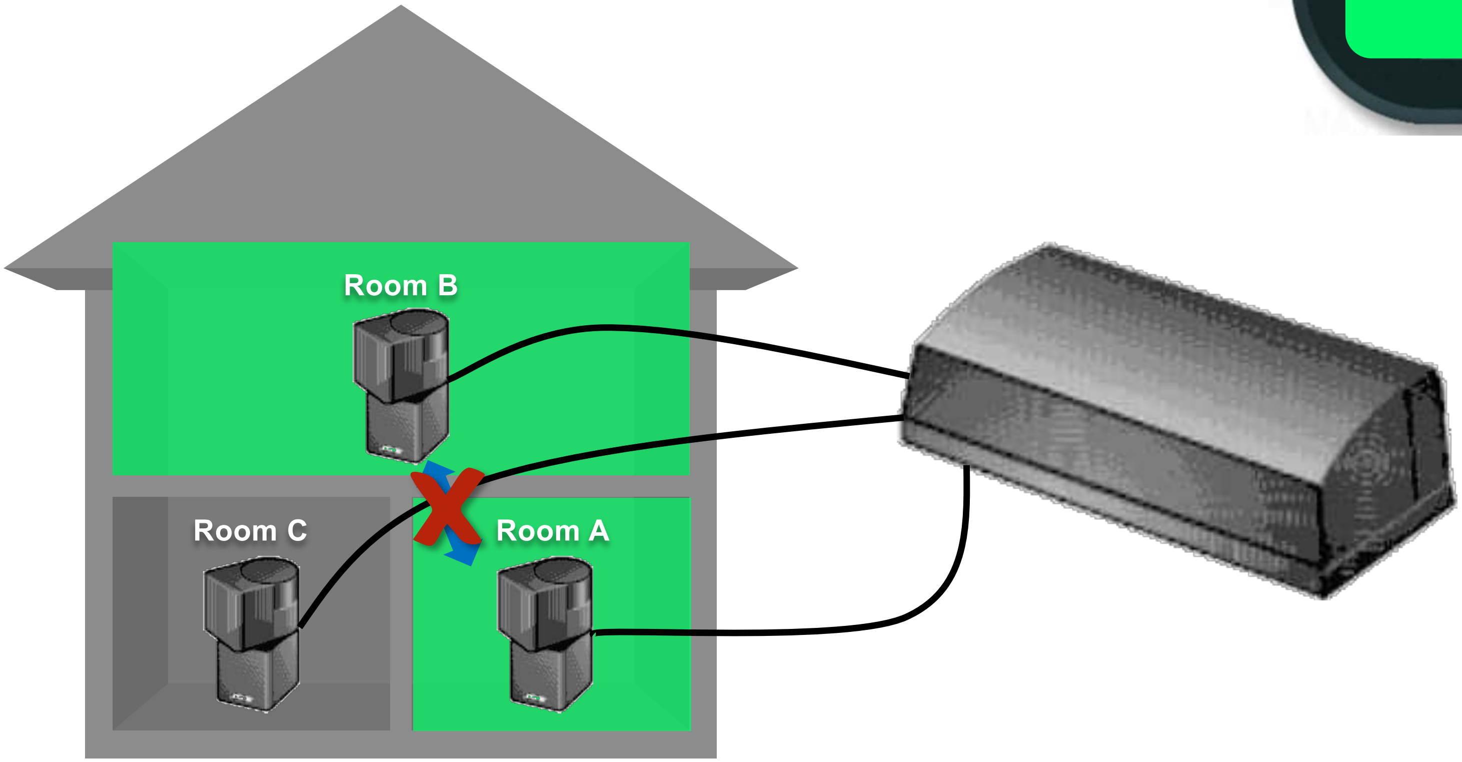
1. Wake up the Personal music center.
2. Press the ROOM button until the room indicator A is displayed. Press the FM source button and adjust the volume to the desired level for room A.
3. Press the ROOM button again to select room B. Press the FM source button and adjust the volume to the desired level for room B. Now, the indicators A B are displayed.
4. Press the ROOM button again. The indicators A B appear on the display indicating that you can control these two rooms together. Any button command given now (SOURCE, VOLUME, MUTE, ON/OFF, SLEEP) is applied to both rooms.



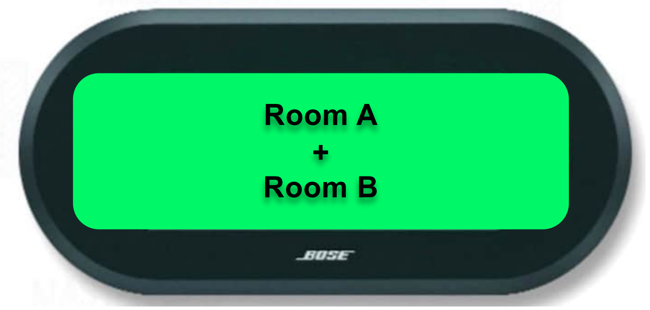


Bose Lifestyle Ad-Hoc Grouping


Room A
+
Room B


Room B
Room C
Room A

Bose Lifestyle Ad-Hoc Grouping


Room A
+
Room B
BOSE

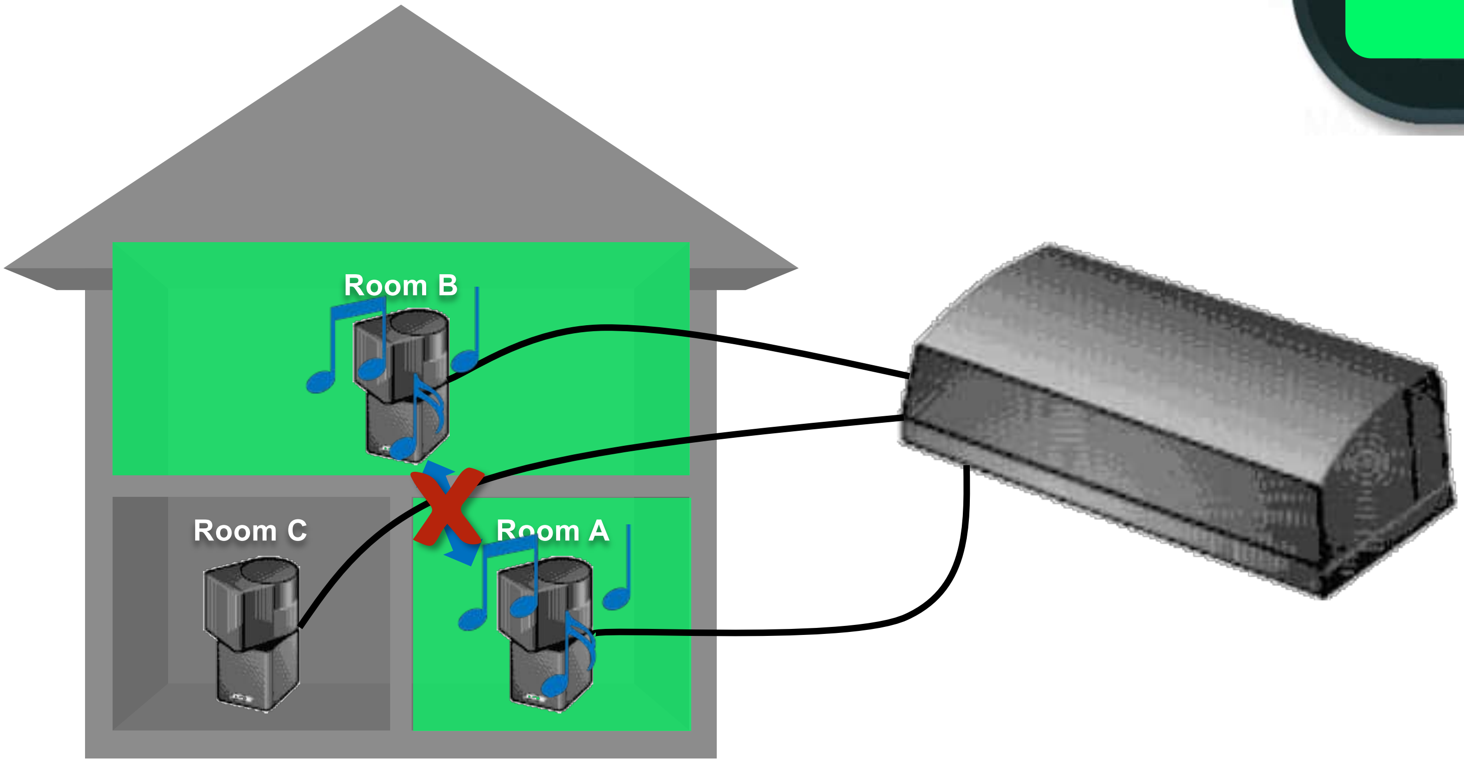
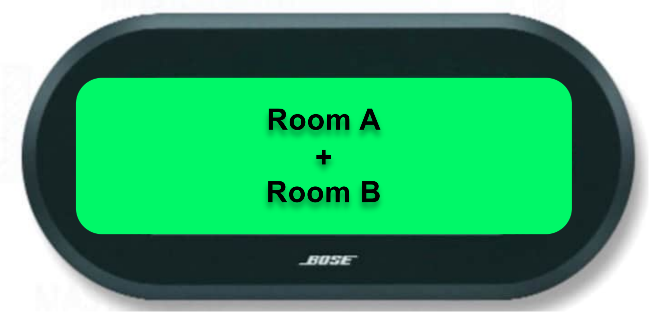
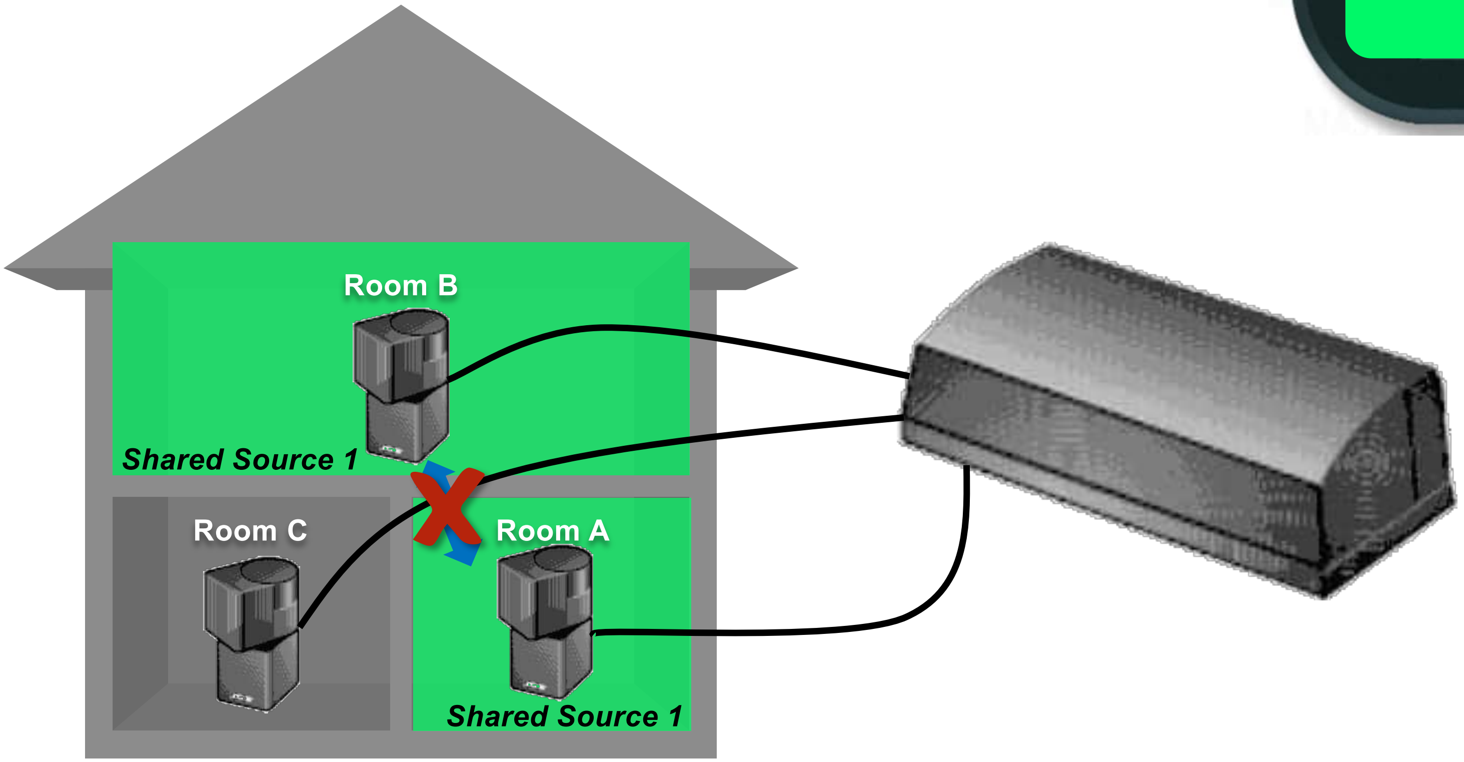

Room B
Room C
Room A

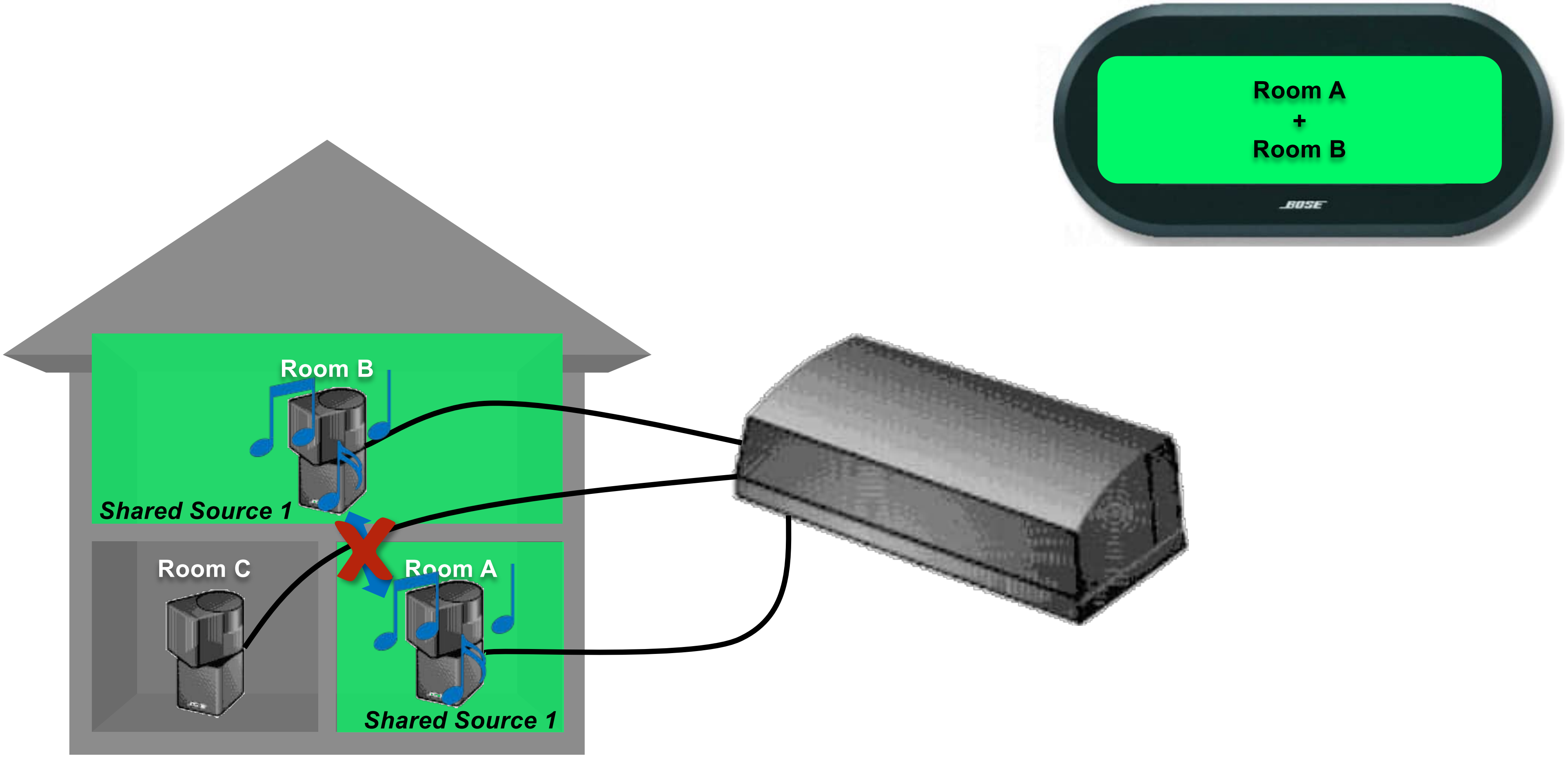
EXHIBIT A - FILED UNDER SEAL

Bose Lifestyle Ad-Hoc Grouping

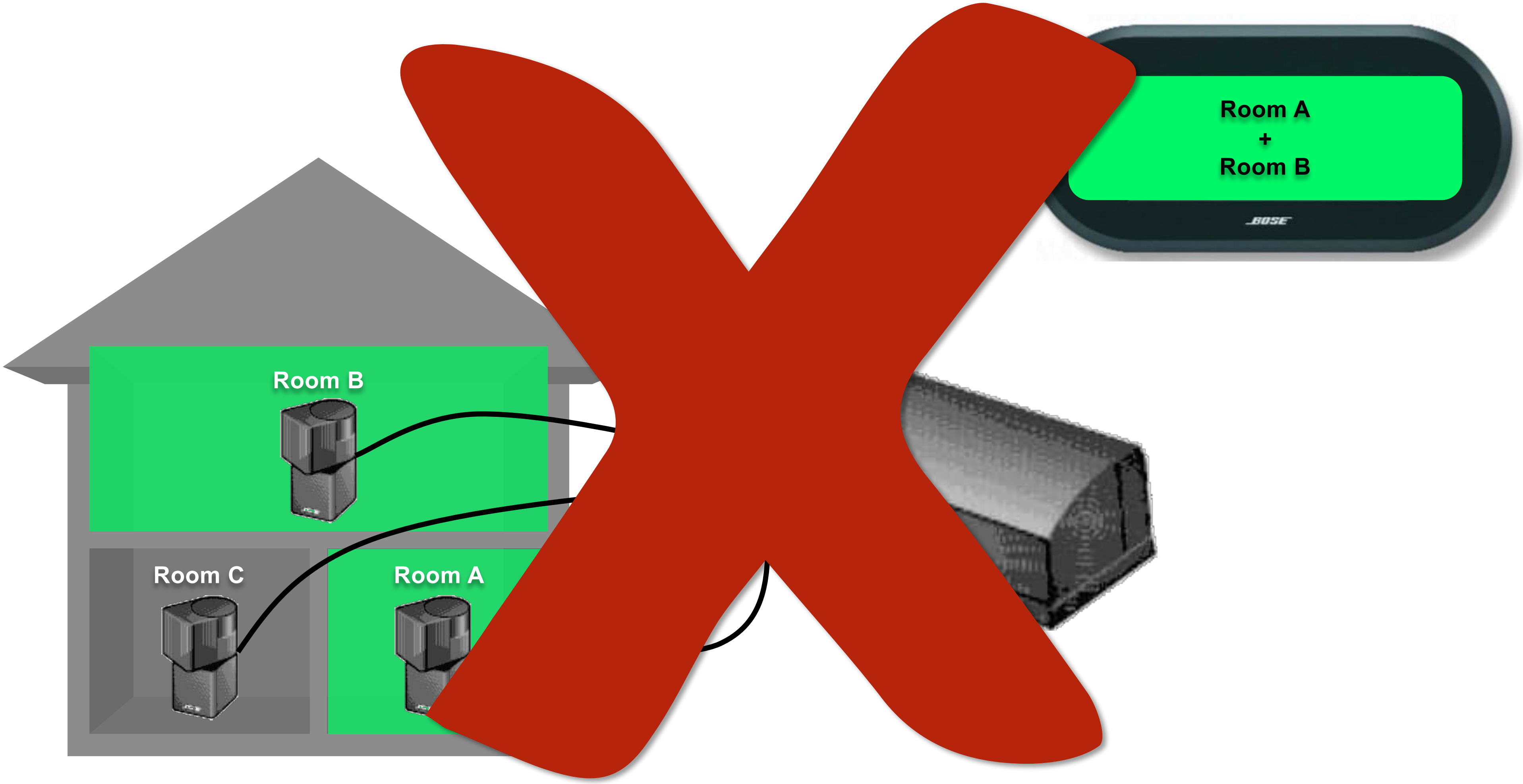

Room A
+
Room B
BOSE


Room B
Shared Source 1
Room C
Room A
Shared Source 1

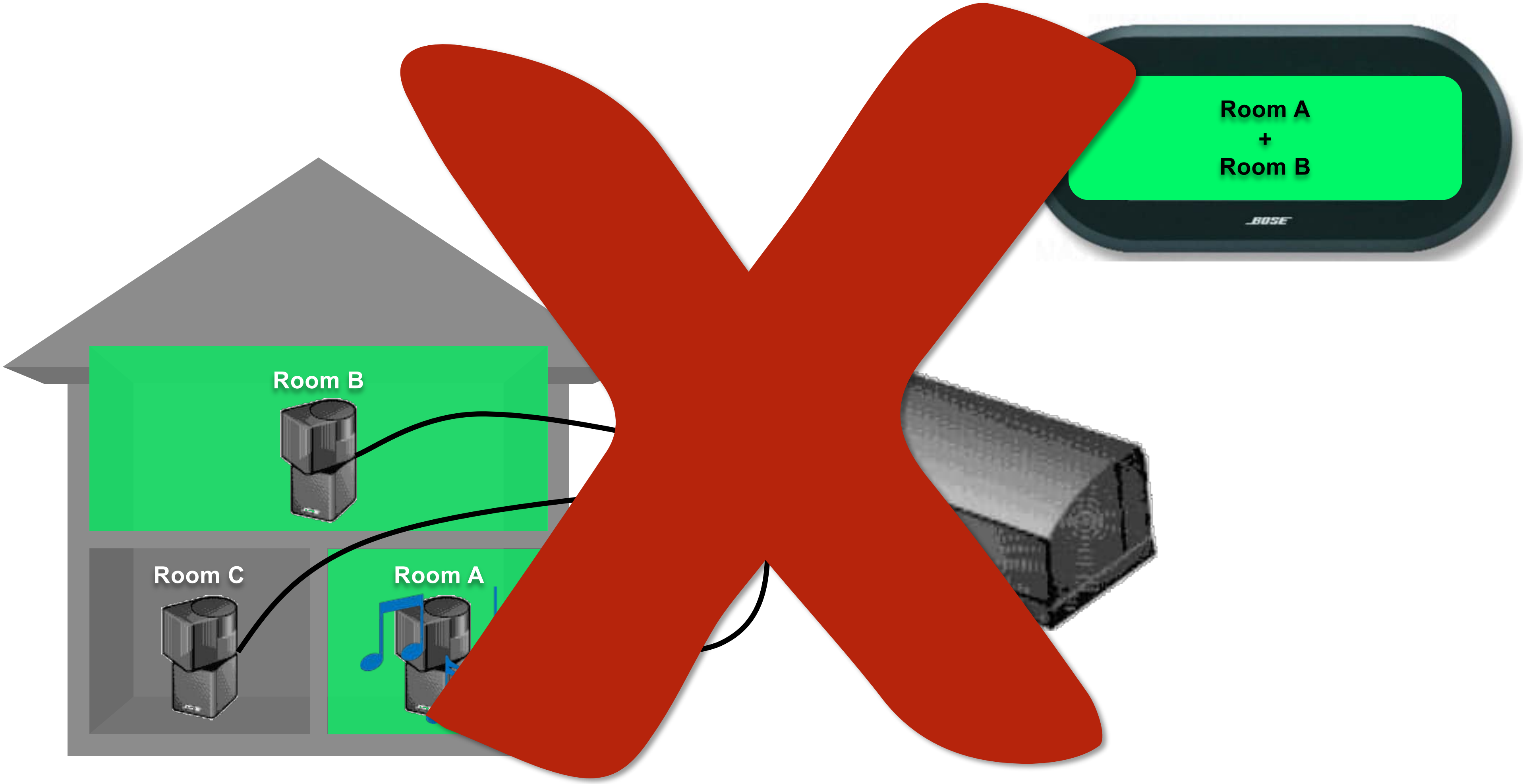
Bose Lifestyle Ad-Hoc Grouping


Room A
+
Room B
BOSE
Room B
Shared Source 1
Room C
Room A
Shared Source 1

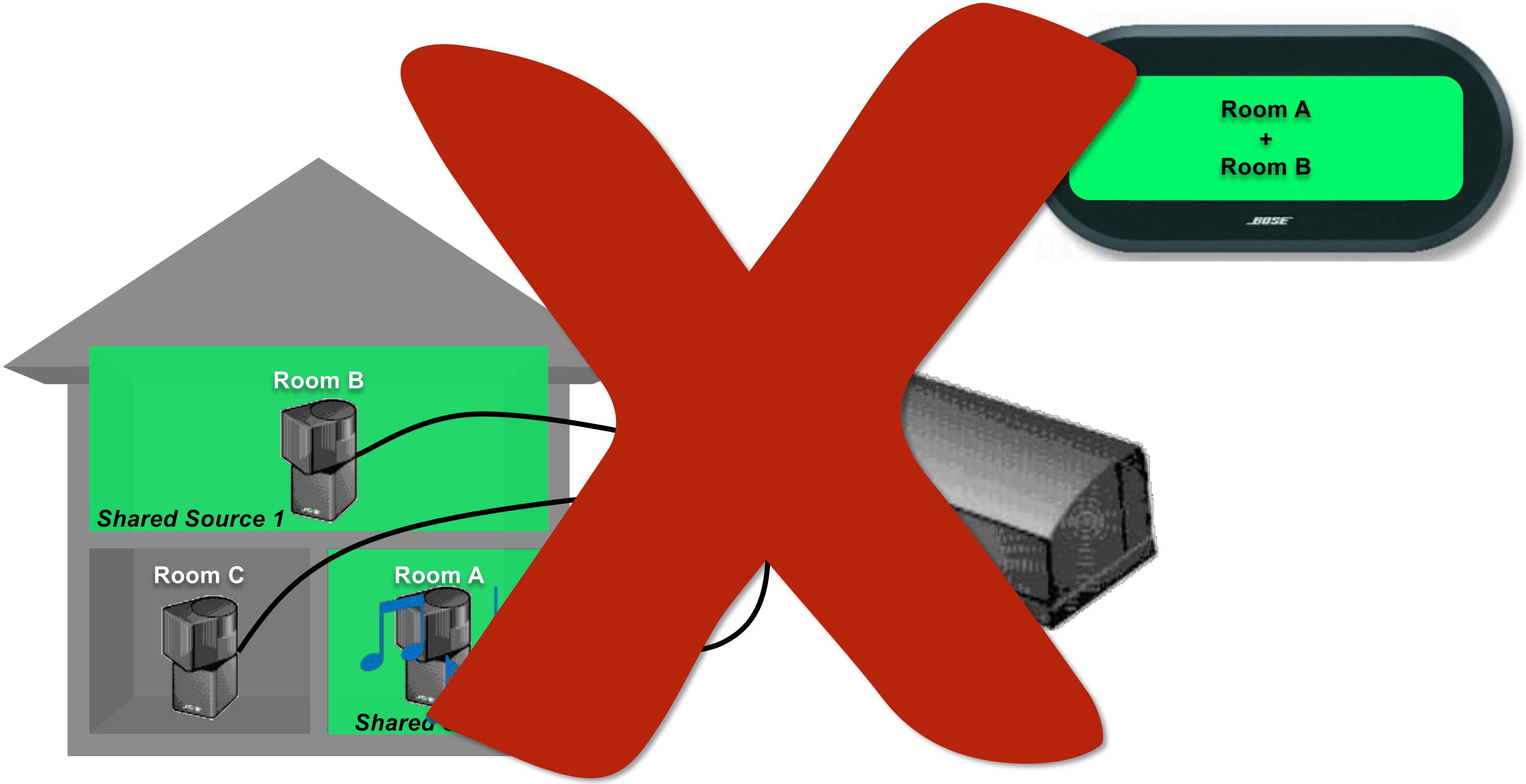
Bose Lifestyle Ad-Hoc Grouping - No "Indication" of Being Added to "Zone Scene"


Room A
+
Room B
BOSE
Room B
Room C
Room A

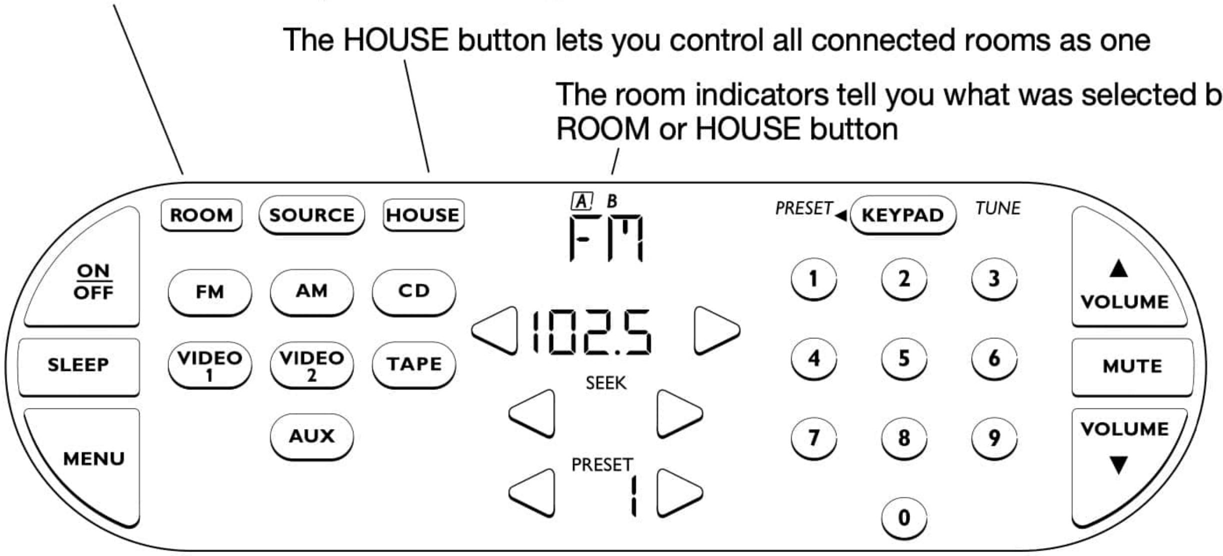
Bose Lifestyle Ad-Hoc Grouping – No Standalone Use


Room A
+
Room B
BOSE
Room B
Room C
Room A

Bose Lifestyle Ad-Hoc Grouping – No Standalone Use


Room A
+
Room B
BOSE
Room B
Shared Source 1
Room C
Room A
Shared

Bose Lifestyle Ad-Hoc Grouping – No Standalone Use


The ROOM button lets you control a single room or two or more rooms that share a source

The HOUSE button lets you control all connected rooms as one

The room indicators tell you what was selected by the ROOM or HOUSE button

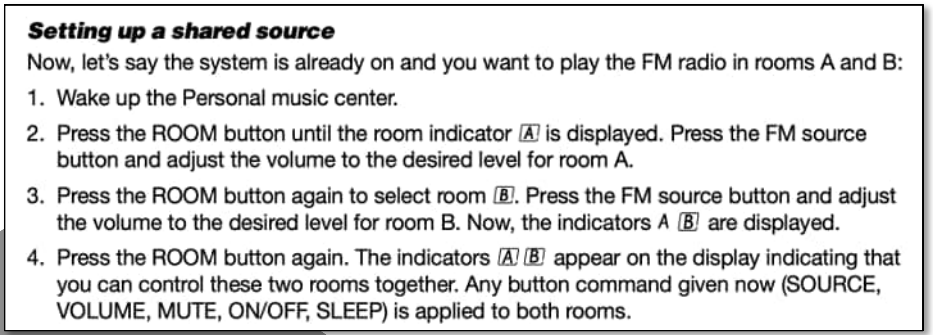
ROOM
SOURCE
HOUSE
A B
FM
PRESET
KEYPAD
TUNE
ON OFF
FM
AM
CD
102.5
1
2
3
VOLUME ▲
SLEEP
VIDEO 1
VIDEO 2
TAPE
SEEK
4
5
6
MUTE
MENU
AUX
PRESET
1
7
8
9
0
VOLUME ▼

Returning to single-room control

After you have gained control of multiple rooms using the ROOM button, you can use the ROOM button again to gain control of a single room. Press ROOM until the room you want is displayed ($\boxed{A}$, $\boxed{B}$, $\boxed{C}$, or $\boxed{D}$). Control that room as desired.

$\boxed{A}$ A boxed letter indicates the presently-selected room or rooms. The selected room is affected by any source changes, or any change you make using the VOLUME, MUTE, ON/OFF, or SLEEP buttons.

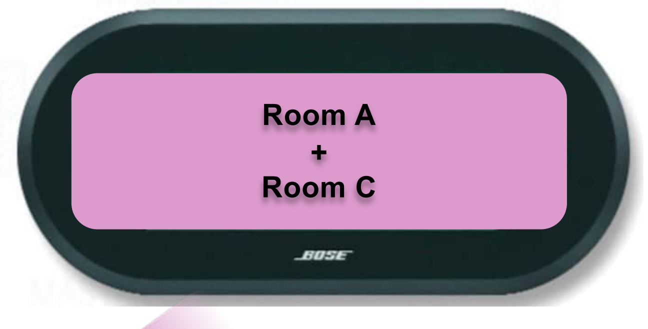
Bose Lifestyle Ad-Hoc Grouping

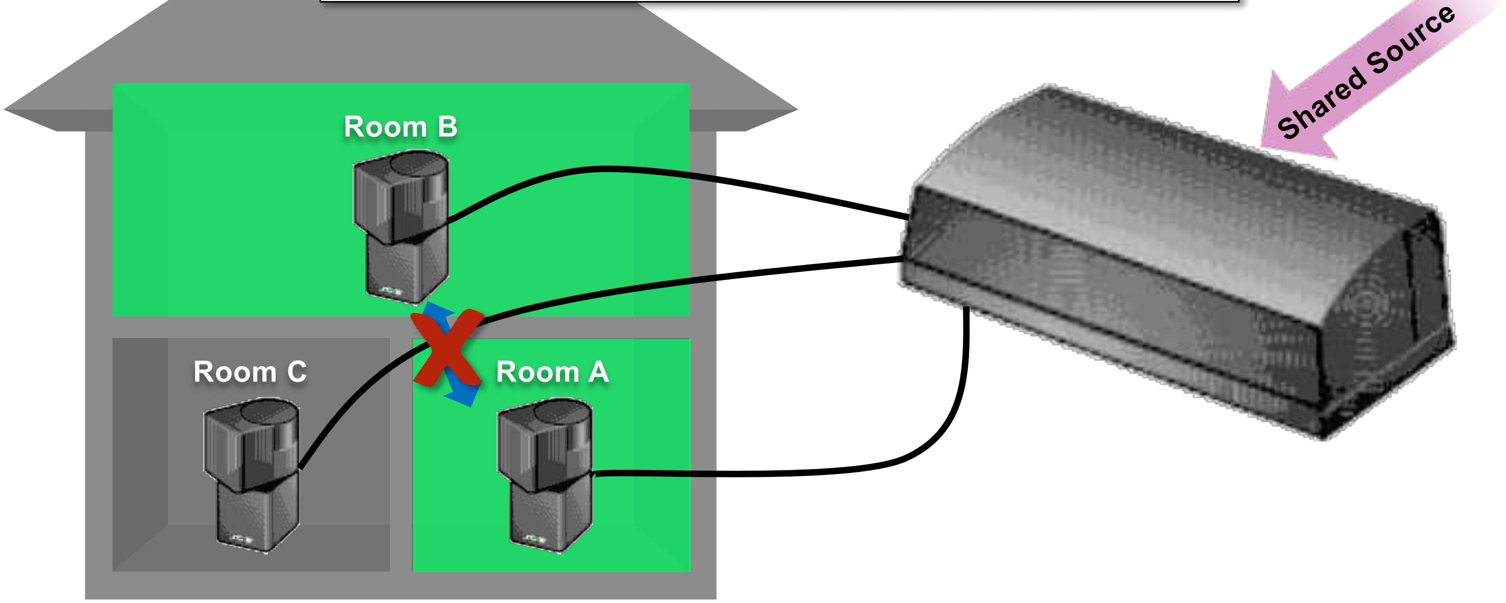


Setting up a shared source

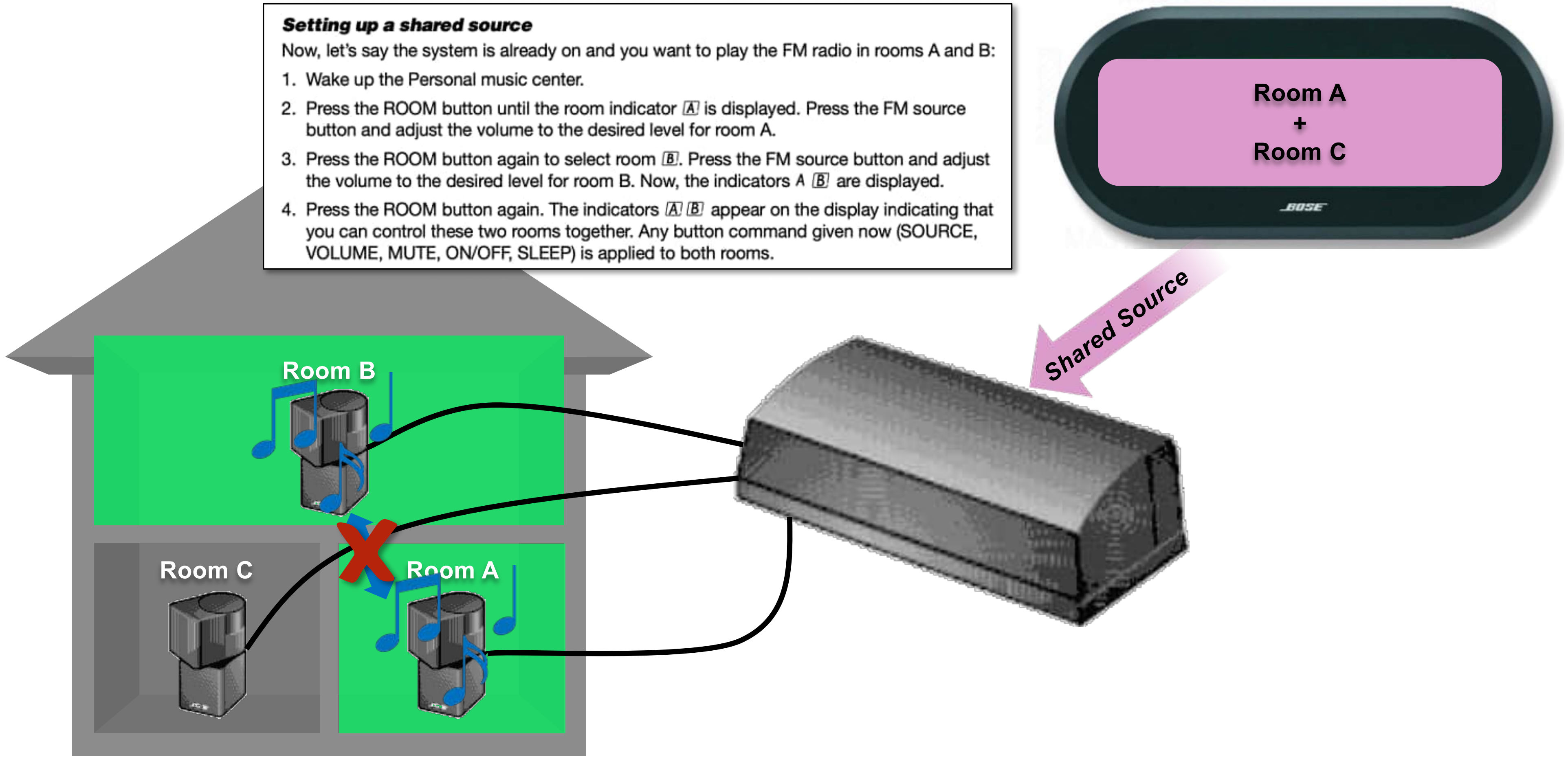
Now, let's say the system is already on and you want to play the FM radio in rooms A and B:

1. Wake up the Personal music center.
2. Press the ROOM button until the room indicator 🄰 is displayed. Press the FM source button and adjust the volume to the desired level for room A.
3. Press the ROOM button again to select room 🄱. Press the FM source button and adjust the volume to the desired level for room B. Now, the indicators A 🄱 are displayed.
4. Press the ROOM button again. The indicators 🄰 🄱 appear on the display indicating that you can control these two rooms together. Any button command given now (SOURCE, VOLUME, MUTE, ON/OFF, SLEEP) is applied to both rooms.





Bose Lifestyle Ad-Hoc Grouping

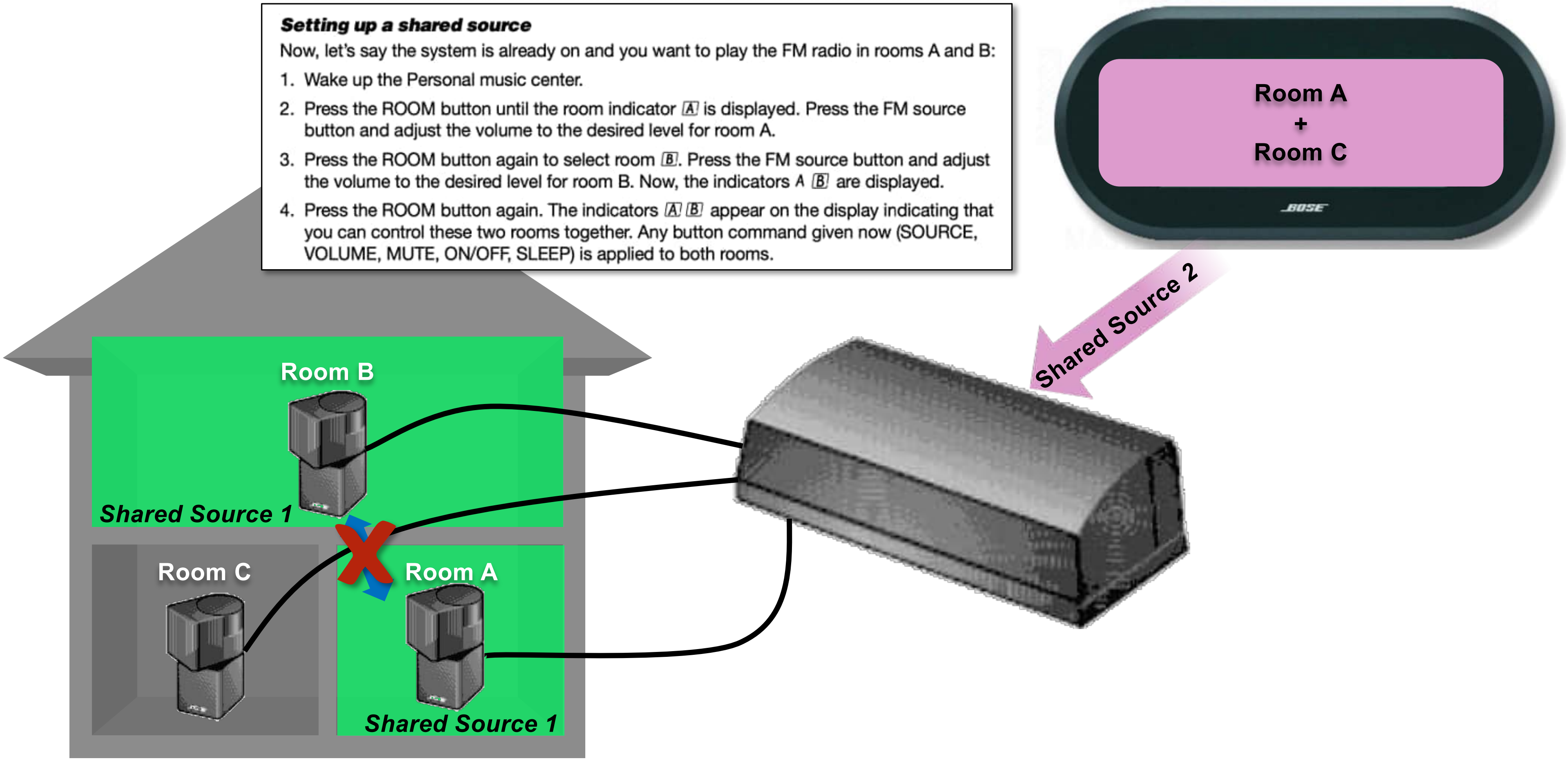


Setting up a shared source

Now, let's say the system is already on and you want to play the FM radio in rooms A and B:

1. Wake up the Personal music center.
2. Press the ROOM button until the room indicator 🄰 is displayed. Press the FM source button and adjust the volume to the desired level for room A.
3. Press the ROOM button again to select room 🄱. Press the FM source button and adjust the volume to the desired level for room B. Now, the indicators A 🄱 are displayed.
4. Press the ROOM button again. The indicators 🄰 🄱 appear on the display indicating that you can control these two rooms together. Any button command given now (SOURCE, VOLUME, MUTE, ON/OFF, SLEEP) is applied to both rooms.

Bose Lifestyle Ad-Hoc Grouping

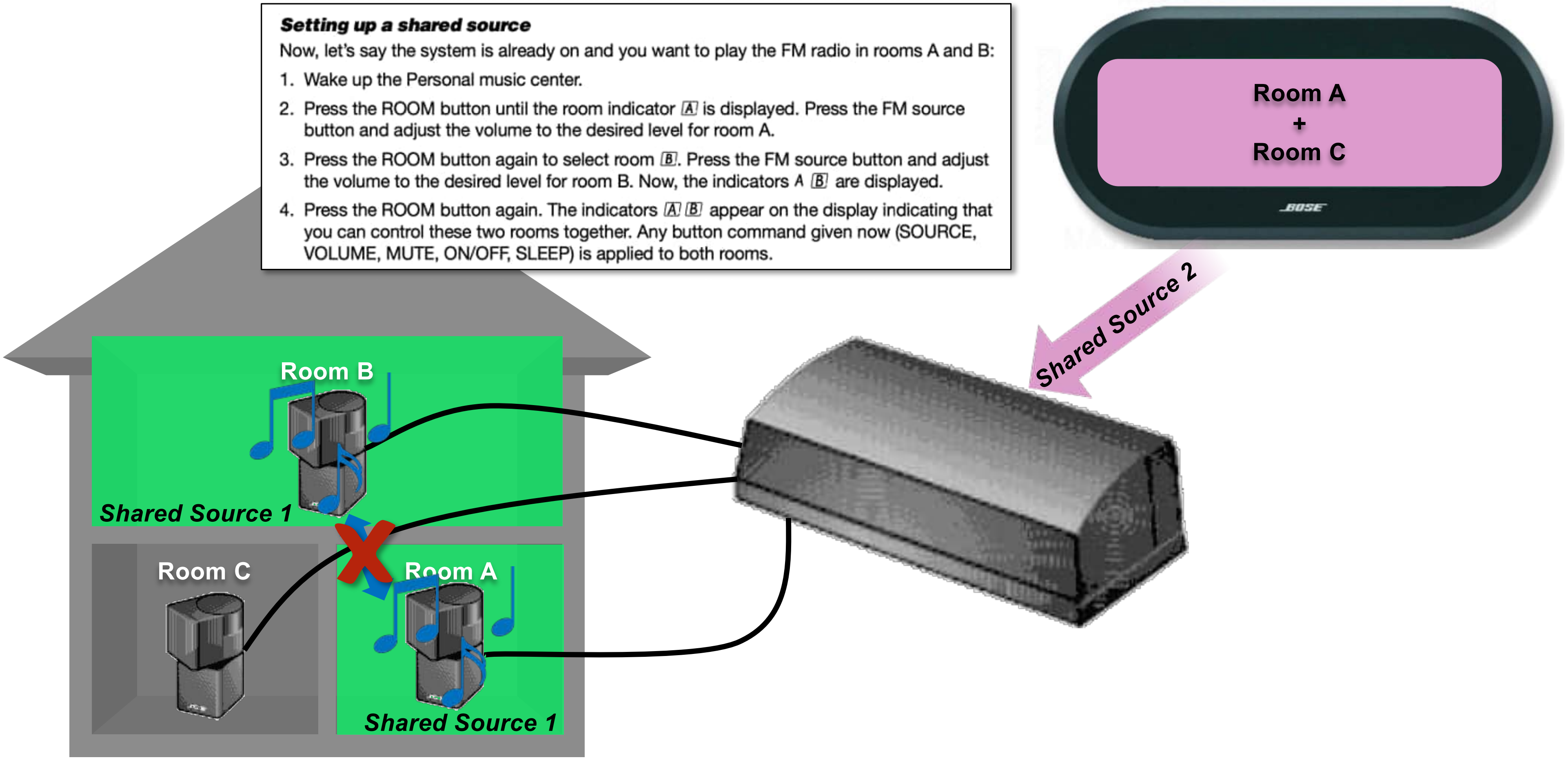


Setting up a shared source

Now, let's say the system is already on and you want to play the FM radio in rooms A and B:

1. Wake up the Personal music center.
2. Press the ROOM button until the room indicator 🄰 is displayed. Press the FM source button and adjust the volume to the desired level for room A.
3. Press the ROOM button again to select room 🄱. Press the FM source button and adjust the volume to the desired level for room B. Now, the indicators A 🄱 are displayed.
4. Press the ROOM button again. The indicators 🄰 🄱 appear on the display indicating that you can control these two rooms together. Any button command given now (SOURCE, VOLUME, MUTE, ON/OFF, SLEEP) is applied to both rooms.

Bose Lifestyle Ad-Hoc Grouping



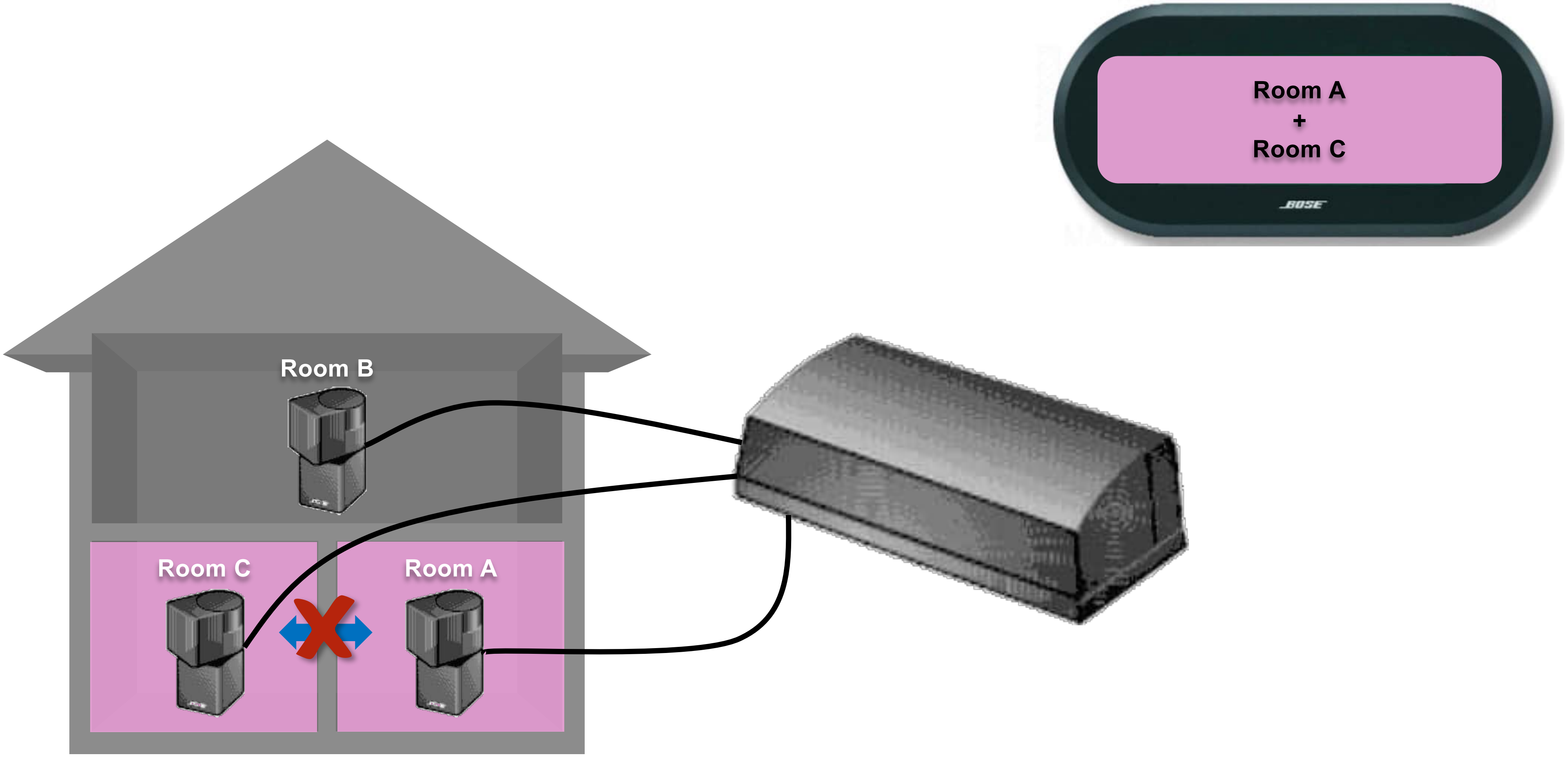
Setting up a shared source

Now, let's say the system is already on and you want to play the FM radio in rooms A and B:

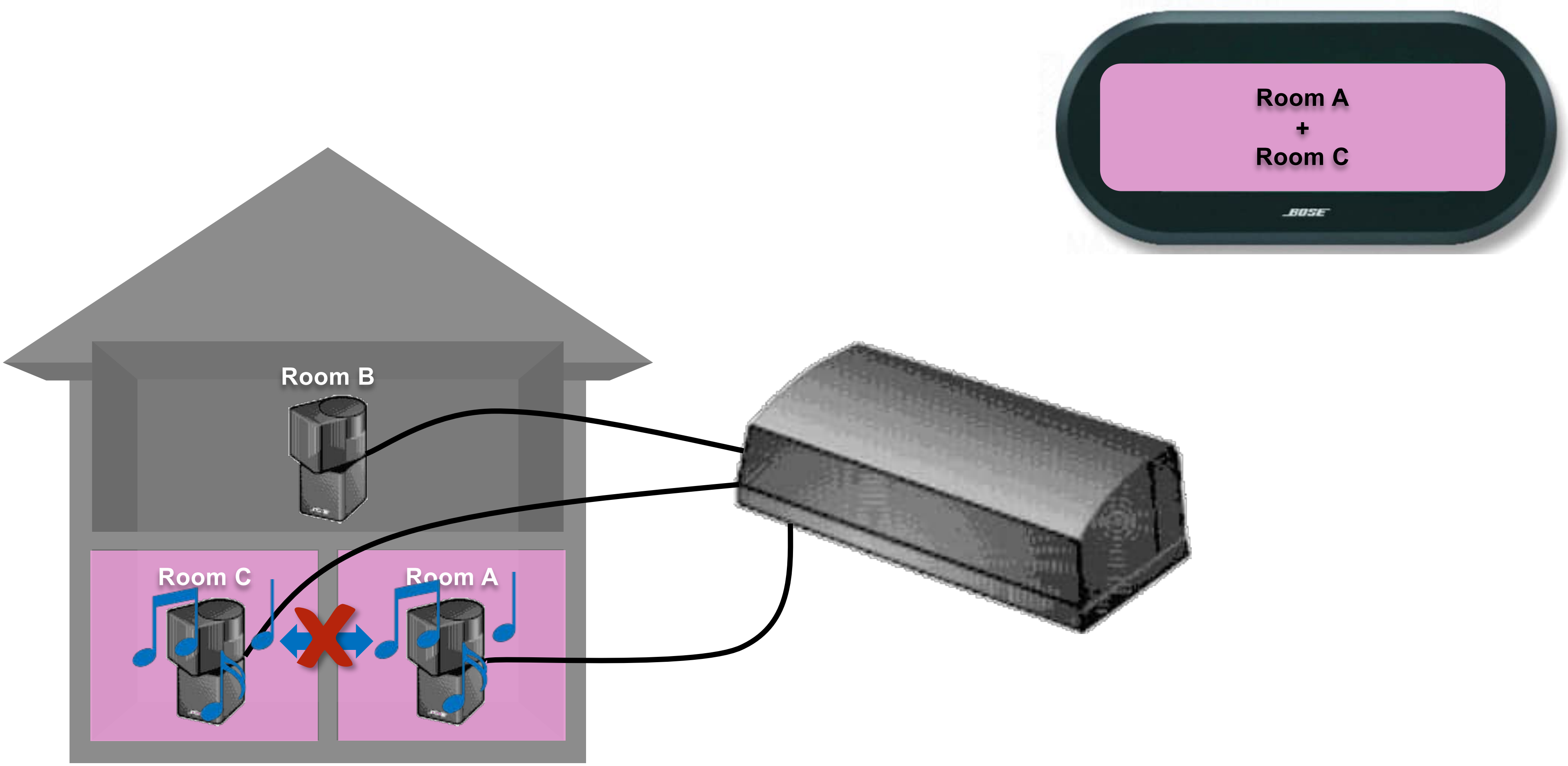
1. Wake up the Personal music center.
2. Press the ROOM button until the room indicator A is displayed. Press the FM source button and adjust the volume to the desired level for room A.
3. Press the ROOM button again to select room B. Press the FM source button and adjust the volume to the desired level for room B. Now, the indicators A B are displayed.
4. Press the ROOM button again. The indicators A B appear on the display indicating that you can control these two rooms together. Any button command given now (SOURCE, VOLUME, MUTE, ON/OFF, SLEEP) is applied to both rooms.

EXHIBIT A - FILED UNDER SEAL

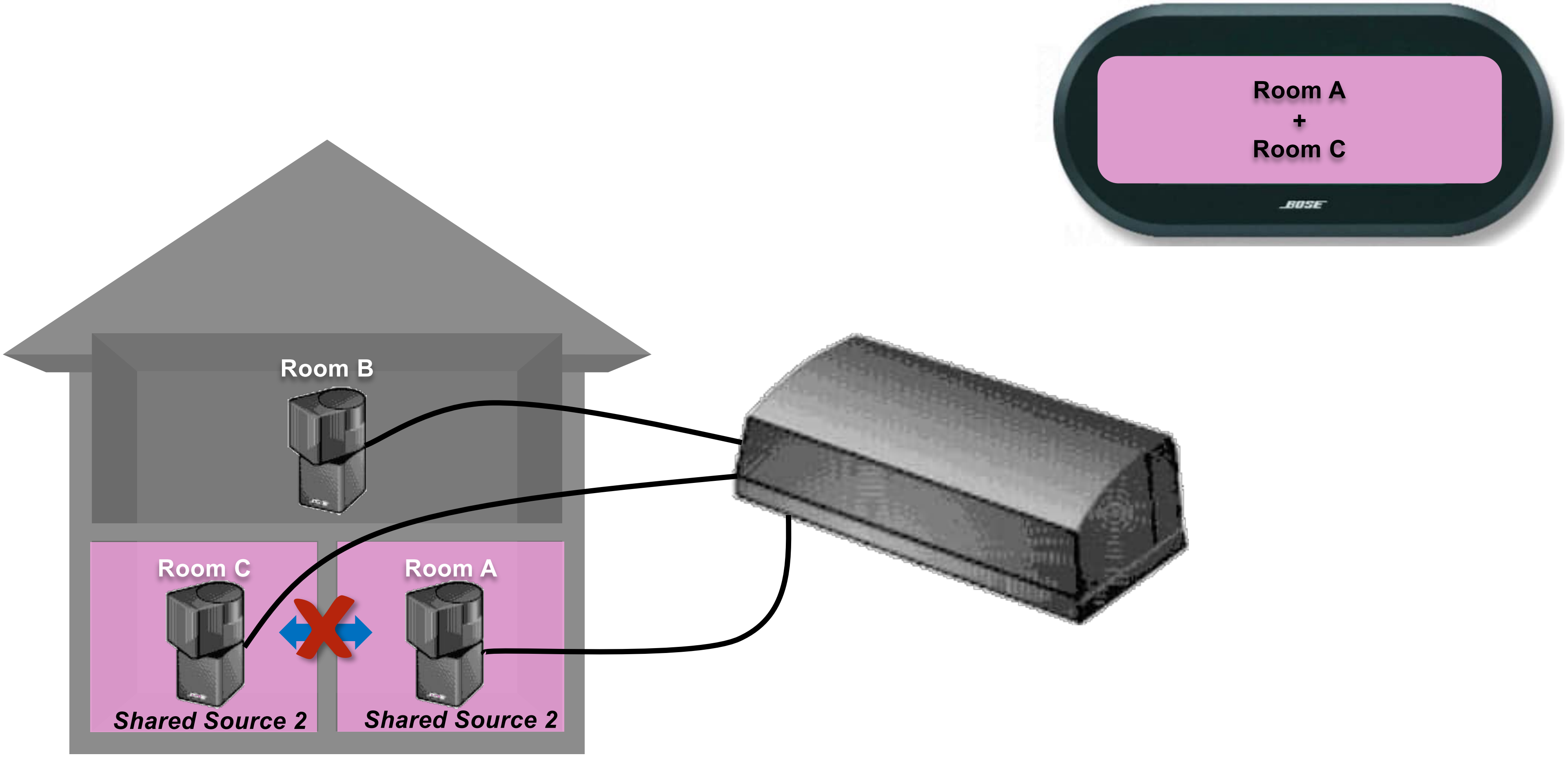
Bose Lifestyle Ad-Hoc Grouping


Room A
+
Room C
BOSE
Room B
Room C
Room A

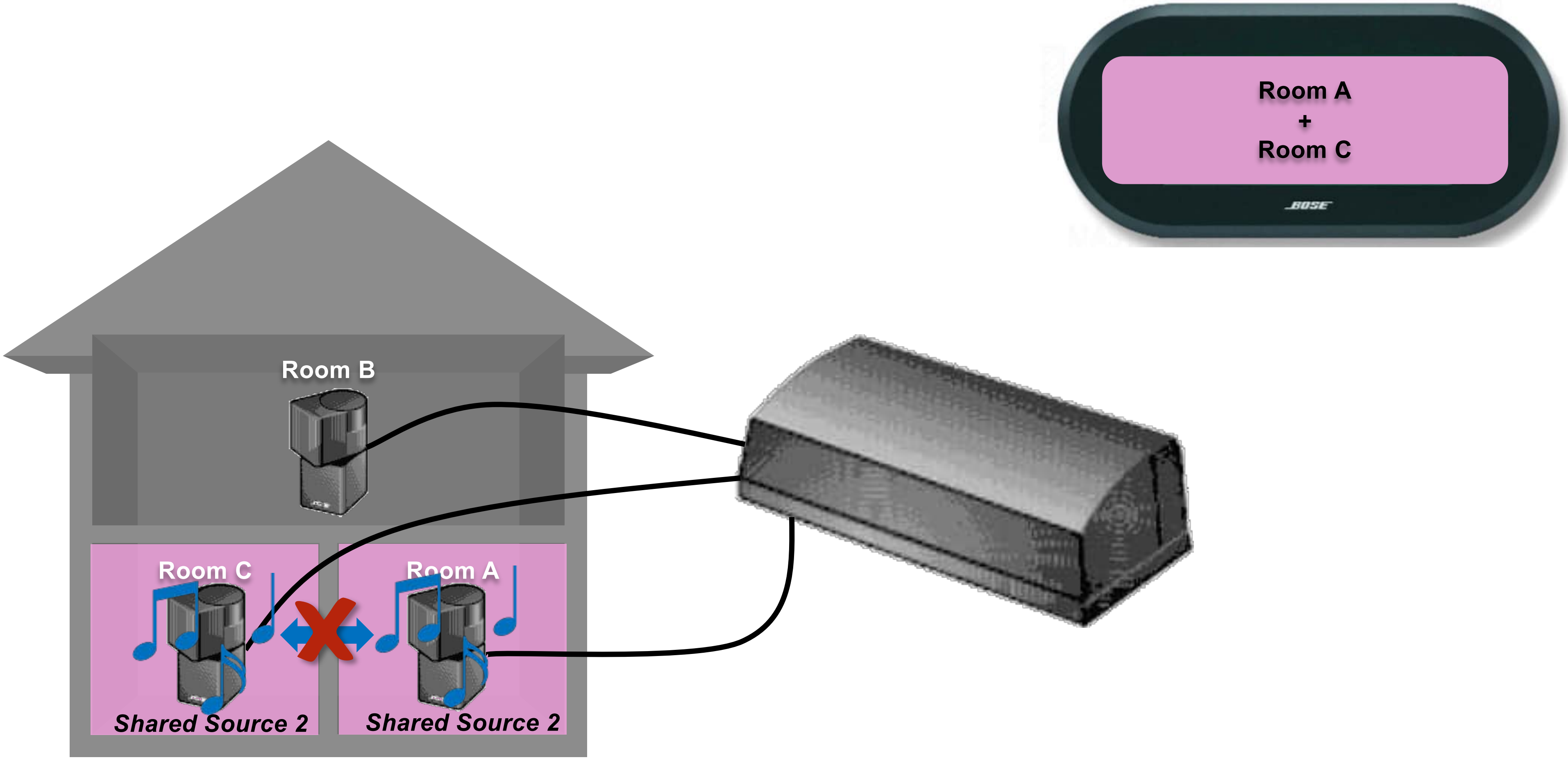
Bose Lifestyle Ad-Hoc Grouping


Room A
+
Room C
BOSE
Room B
Room C
Room A

Bose Lifestyle Ad-Hoc Grouping


Room A
+
Room C
BOSE
Room B
Room C
Room A
Shared Source 2
Shared Source 2

Bose Lifestyle Ad-Hoc Grouping


Room A
+
Room C
BOSE
Room B
Room C
Room A
Shared Source 2
Shared Source 2

Bose Lifestyle Ad-Hoc Grouping

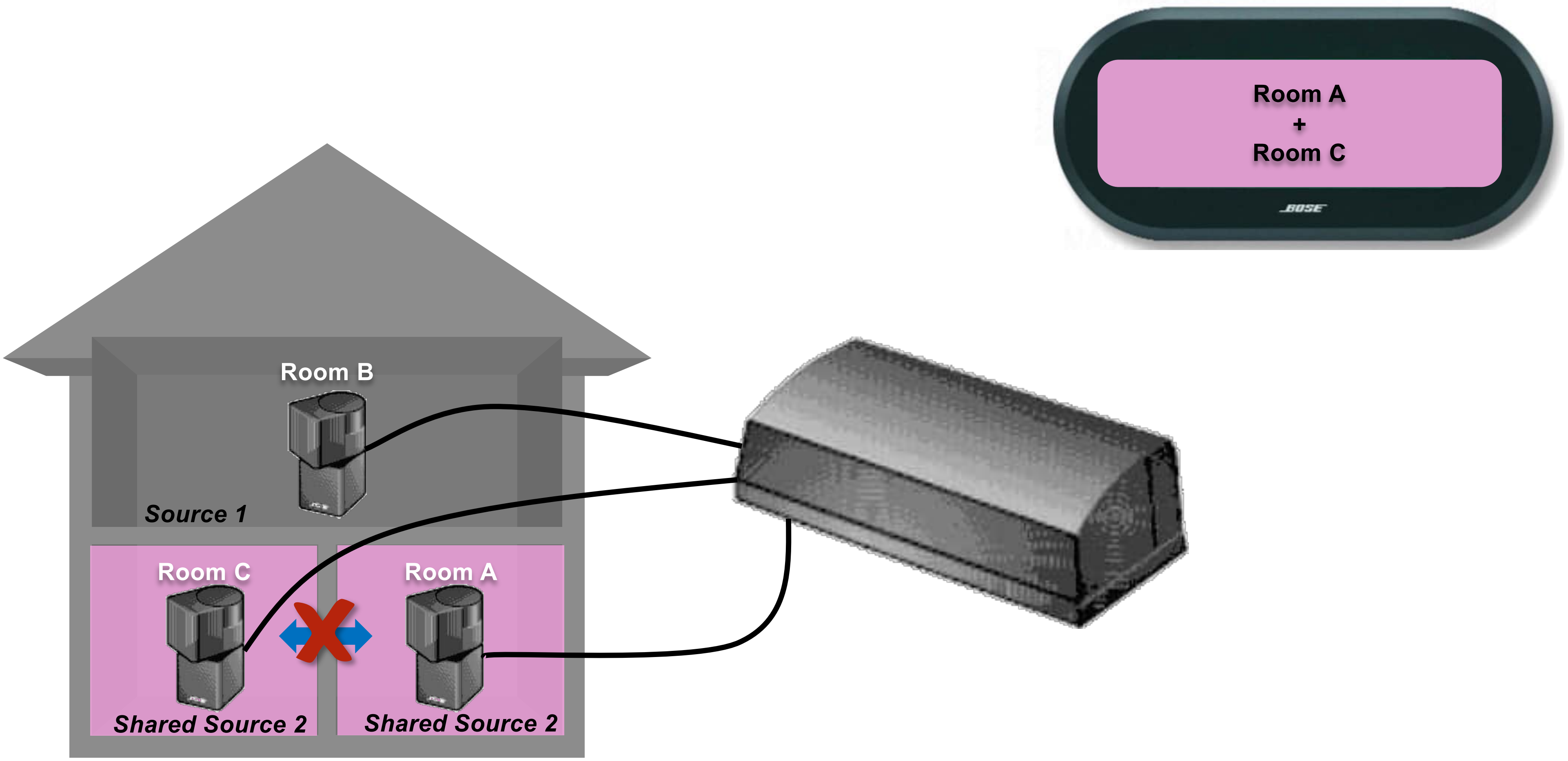
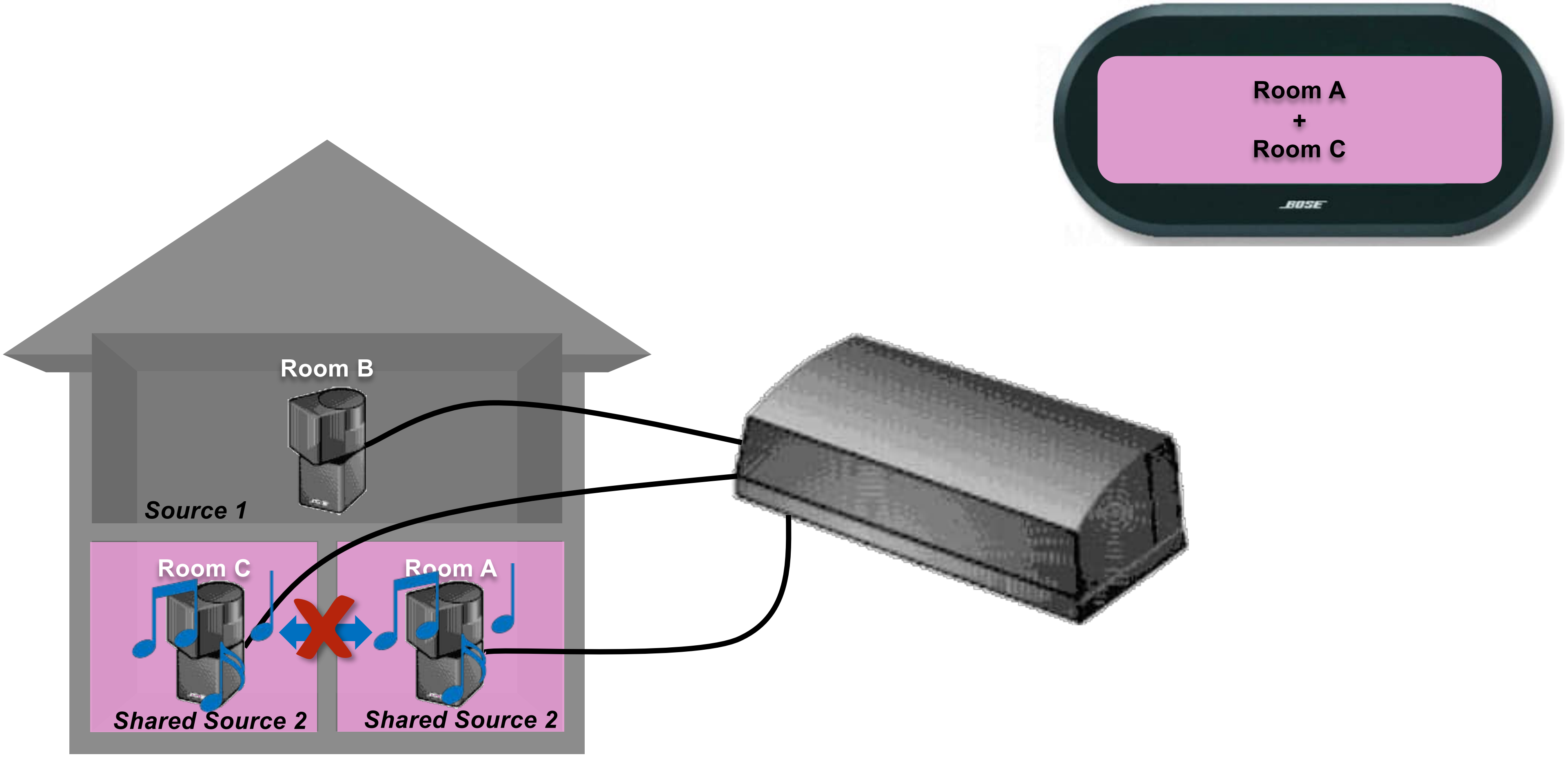
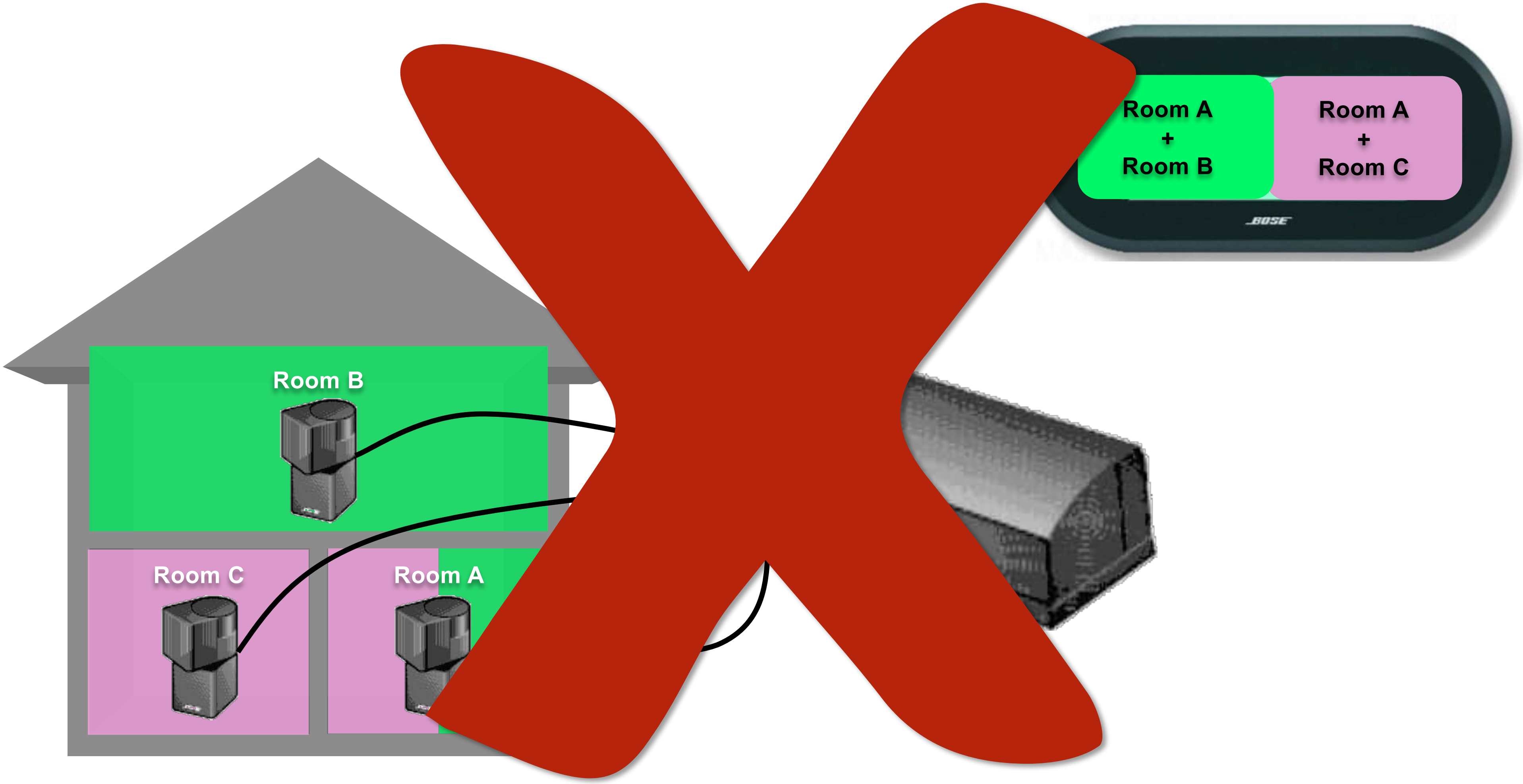

Room A
+
Room C
BOSE
Room B
Source 1
Room C
Shared Source 2
Room A
Shared Source 2

EXHIBIT A - FILED UNDER SEAL

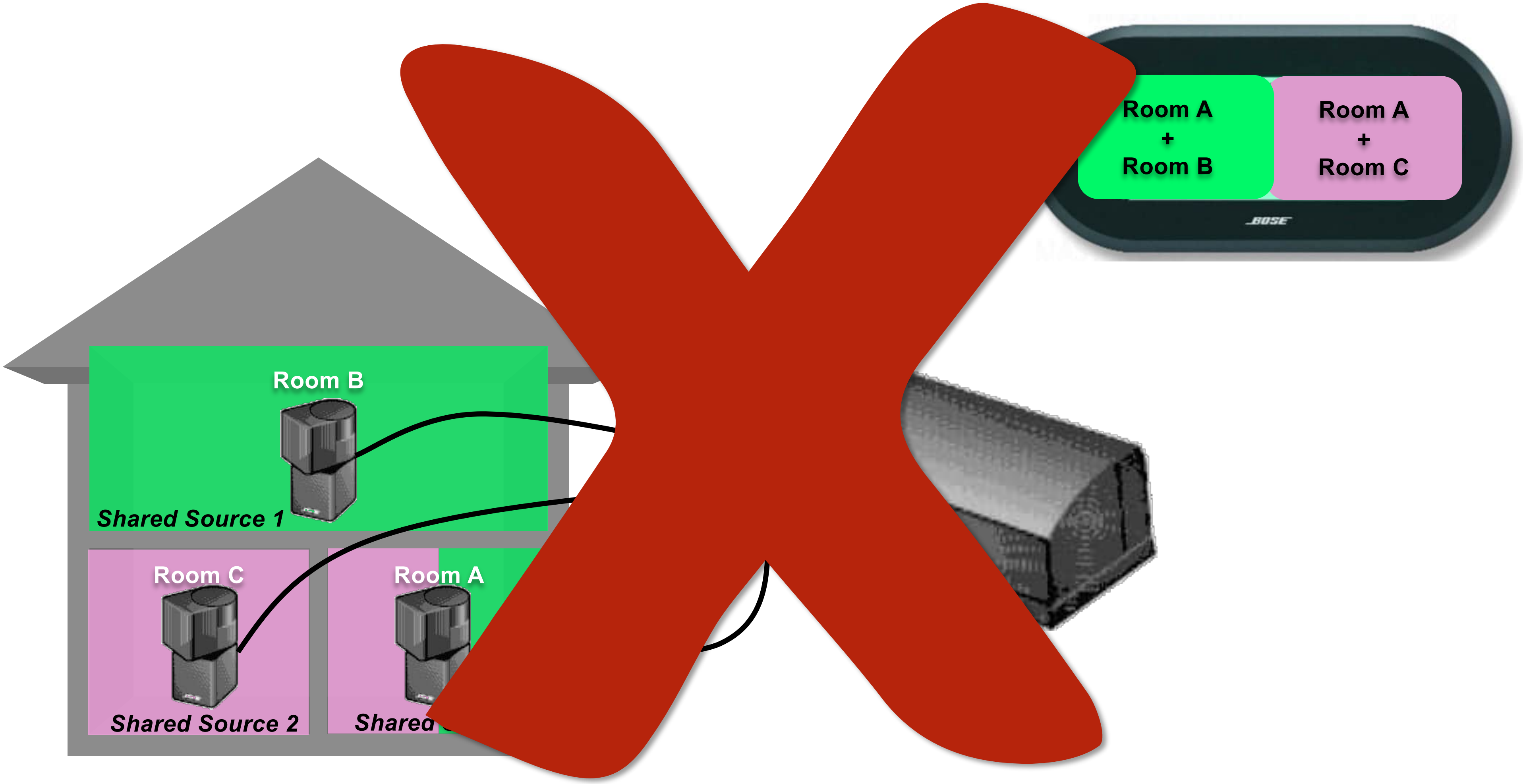
Bose Lifestyle Ad-Hoc Grouping


Room A
+
Room C
BOSE
Room B
Source 1
Room C
Room A
Shared Source 2
Shared Source 2

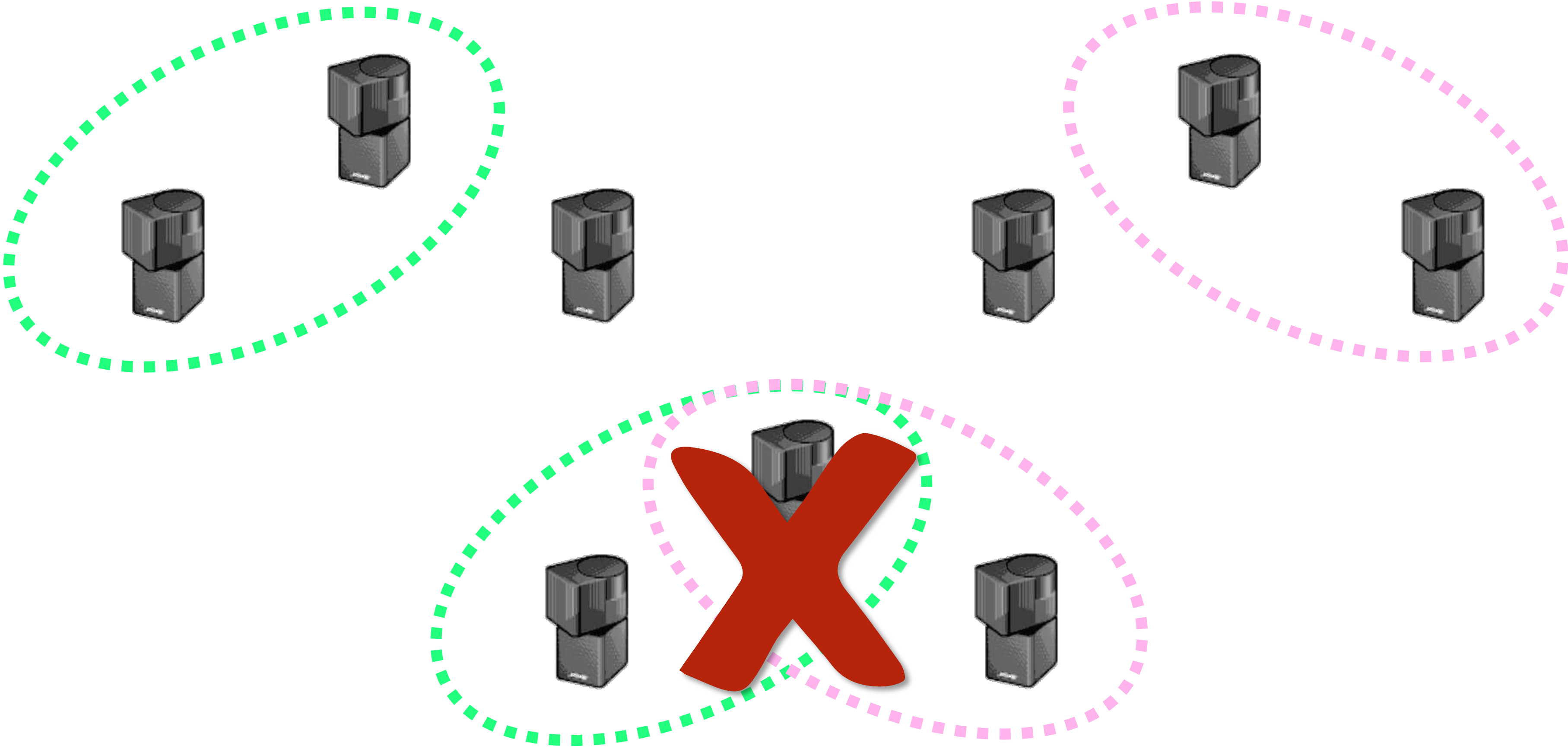
Bose Lifestyle Ad-Hoc Grouping – No Overlapping Groups


Room A
+
Room B
Room A
+
Room C
BOSE
Room B
Room C
Room A

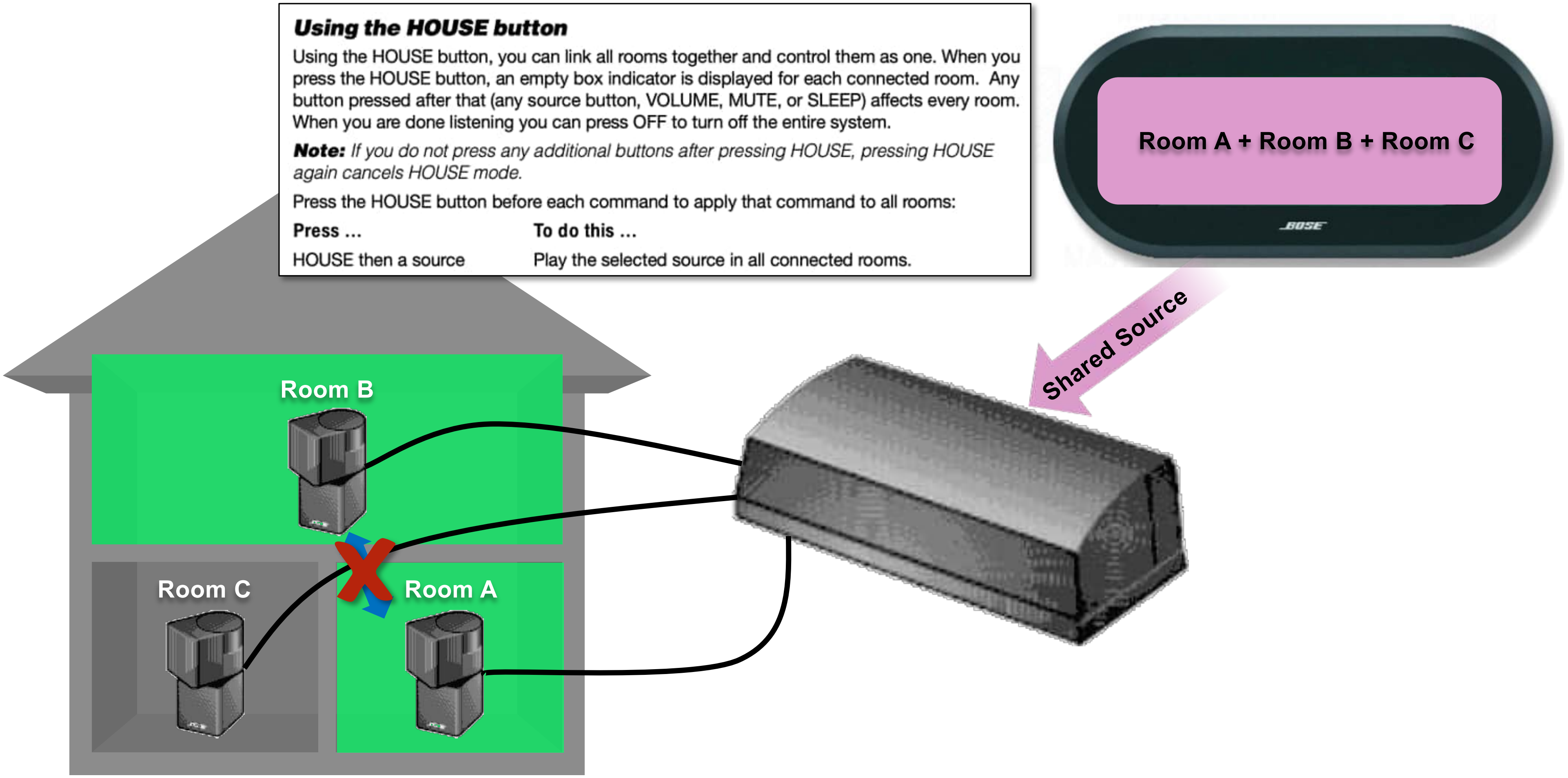
Bose Lifestyle Ad-Hoc Grouping – No Overlapping Groups


Room A
+
Room B
Room A
+
Room C
BOSE
Room B
Shared Source 1
Room C
Shared Source 2
Room A
Shared

Bose Lifestyle Ad-Hoc Grouping – No Overlapping Groups



Bose Lifestyle Ad-Hoc Grouping



Using the HOUSE button

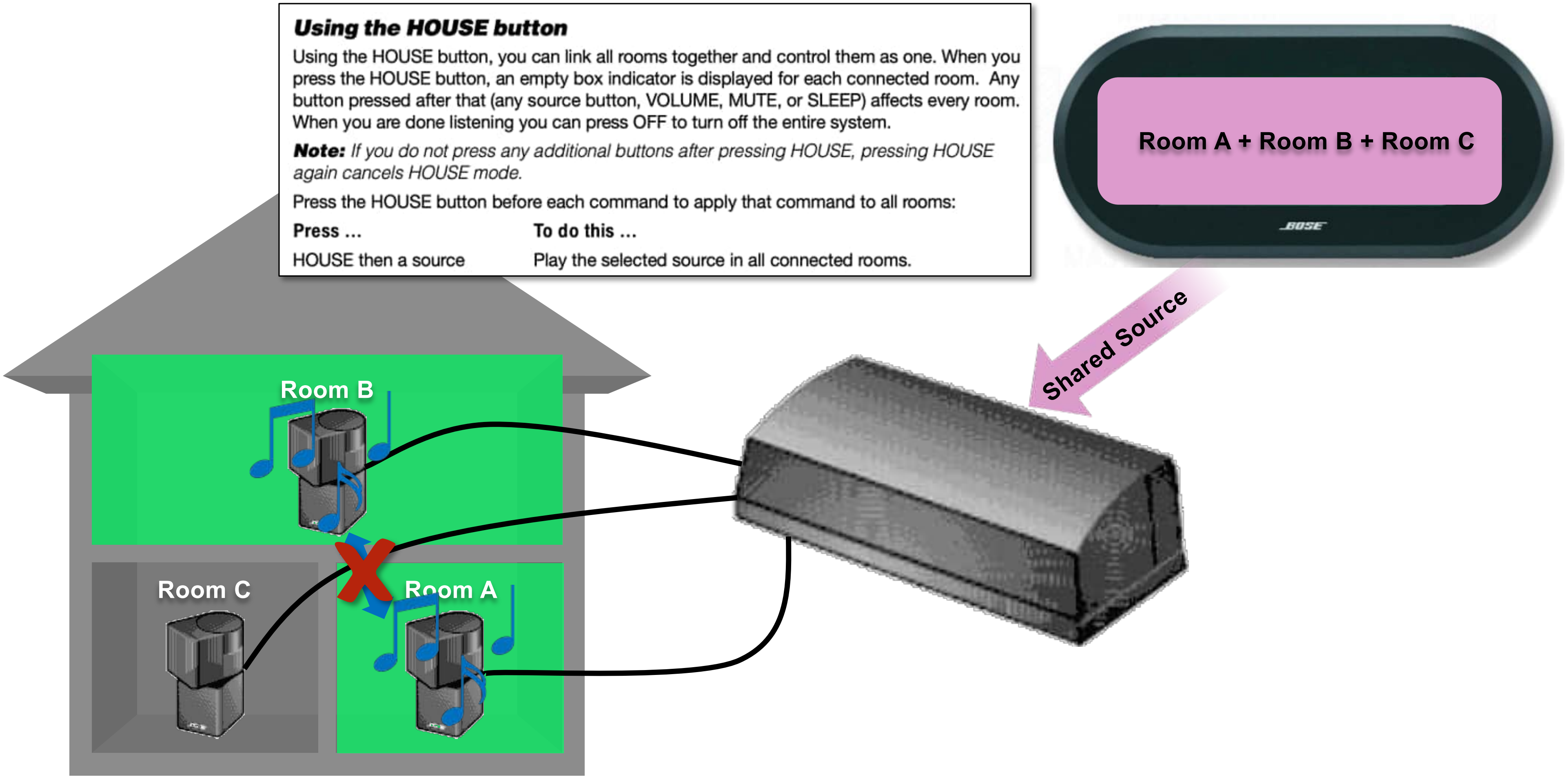
Using the HOUSE button, you can link all rooms together and control them as one. When you press the HOUSE button, an empty box indicator is displayed for each connected room. Any button pressed after that (any source button, VOLUME, MUTE, or SLEEP) affects every room. When you are done listening you can press OFF to turn off the entire system.

Note: *If you do not press any additional buttons after pressing HOUSE, pressing HOUSE again cancels HOUSE mode.*

Press the HOUSE button before each command to apply that command to all rooms:

Press …	To do this …
HOUSE then a source	Play the selected source in all connected rooms.

Bose Lifestyle Ad-Hoc Grouping



Using the HOUSE button

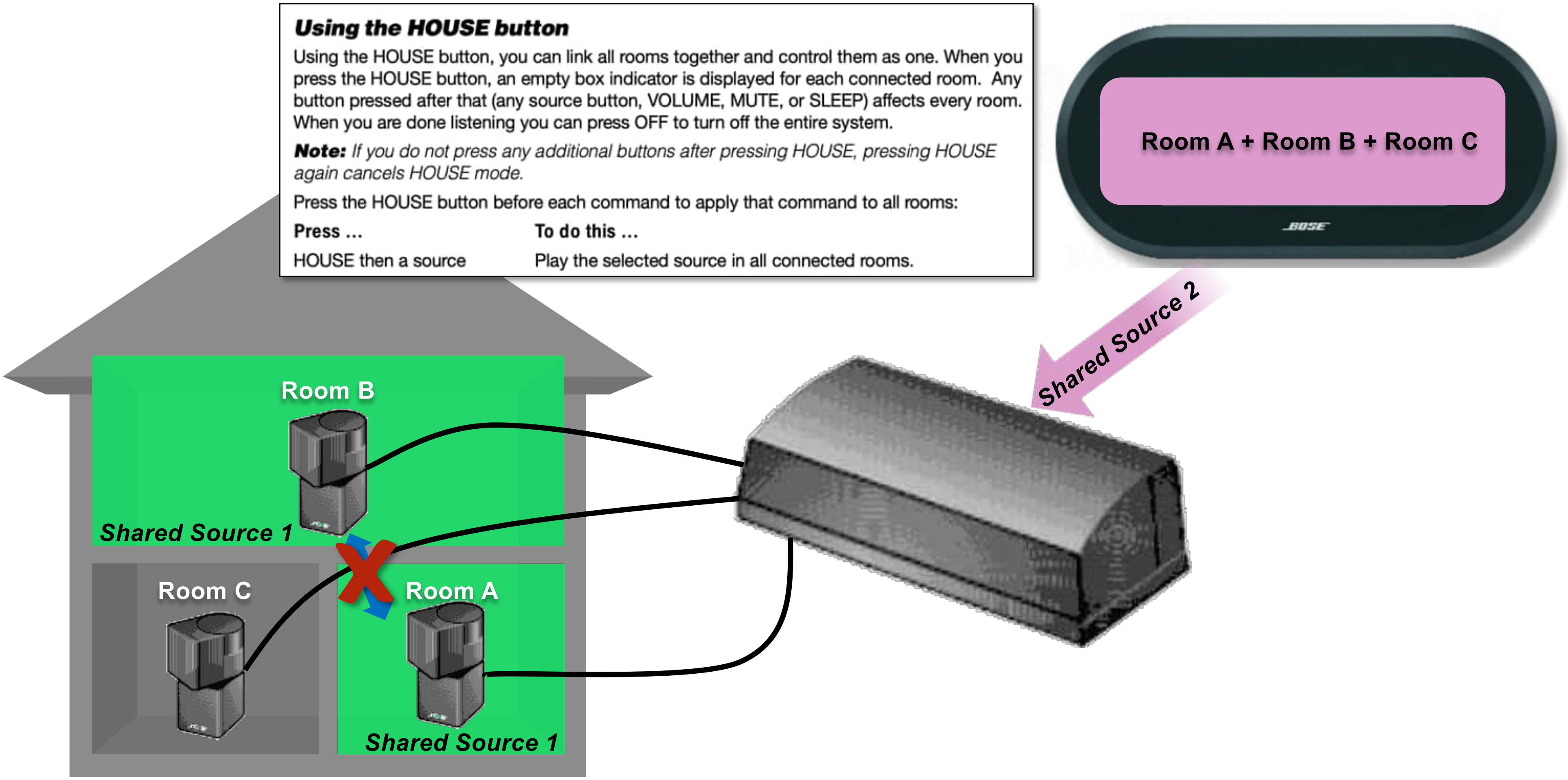
Using the HOUSE button, you can link all rooms together and control them as one. When you press the HOUSE button, an empty box indicator is displayed for each connected room. Any button pressed after that (any source button, VOLUME, MUTE, or SLEEP) affects every room. When you are done listening you can press OFF to turn off the entire system.

Note: *If you do not press any additional buttons after pressing HOUSE, pressing HOUSE again cancels HOUSE mode.*

Press the HOUSE button before each command to apply that command to all rooms:

Press …	**To do this …**
HOUSE then a source	Play the selected source in all connected rooms.

Bose Lifestyle Ad-Hoc Grouping



Using the HOUSE button

Using the HOUSE button, you can link all rooms together and control them as one. When you press the HOUSE button, an empty box indicator is displayed for each connected room. Any button pressed after that (any source button, VOLUME, MUTE, or SLEEP) affects every room. When you are done listening you can press OFF to turn off the entire system.

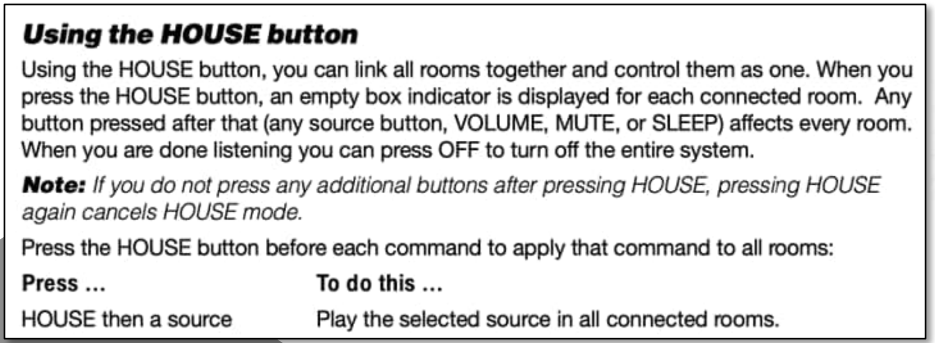
Note: *If you do not press any additional buttons after pressing HOUSE, pressing HOUSE again cancels HOUSE mode.*

Press the HOUSE button before each command to apply that command to all rooms:

Press ...	To do this ...
HOUSE then a source	Play the selected source in all connected rooms.

Room A + Room B + Room C
BOSE
Shared Source 2
Room B
Shared Source 1
Room C
Room A
Shared Source 1

Bose Lifestyle Ad-Hoc Grouping



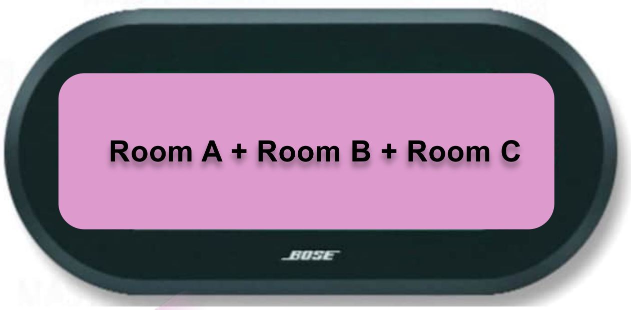
Using the HOUSE button

Using the HOUSE button, you can link all rooms together and control them as one. When you press the HOUSE button, an empty box indicator is displayed for each connected room. Any button pressed after that (any source button, VOLUME, MUTE, or SLEEP) affects every room. When you are done listening you can press OFF to turn off the entire system.

Note: *If you do not press any additional buttons after pressing HOUSE, pressing HOUSE again cancels HOUSE mode.*

Press the HOUSE button before each command to apply that command to all rooms:

Press ...	**To do this ...**
HOUSE then a source	Play the selected source in all connected rooms.


Room A + Room B + Room C
BOSE

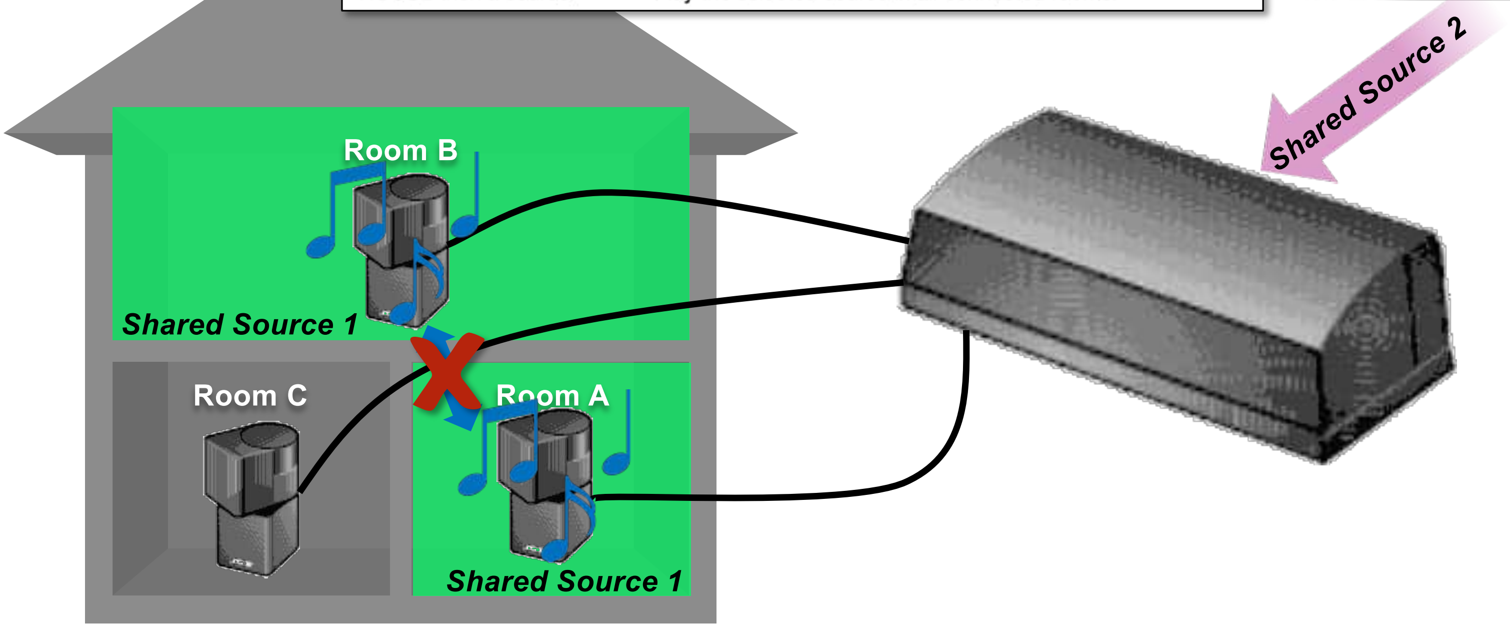
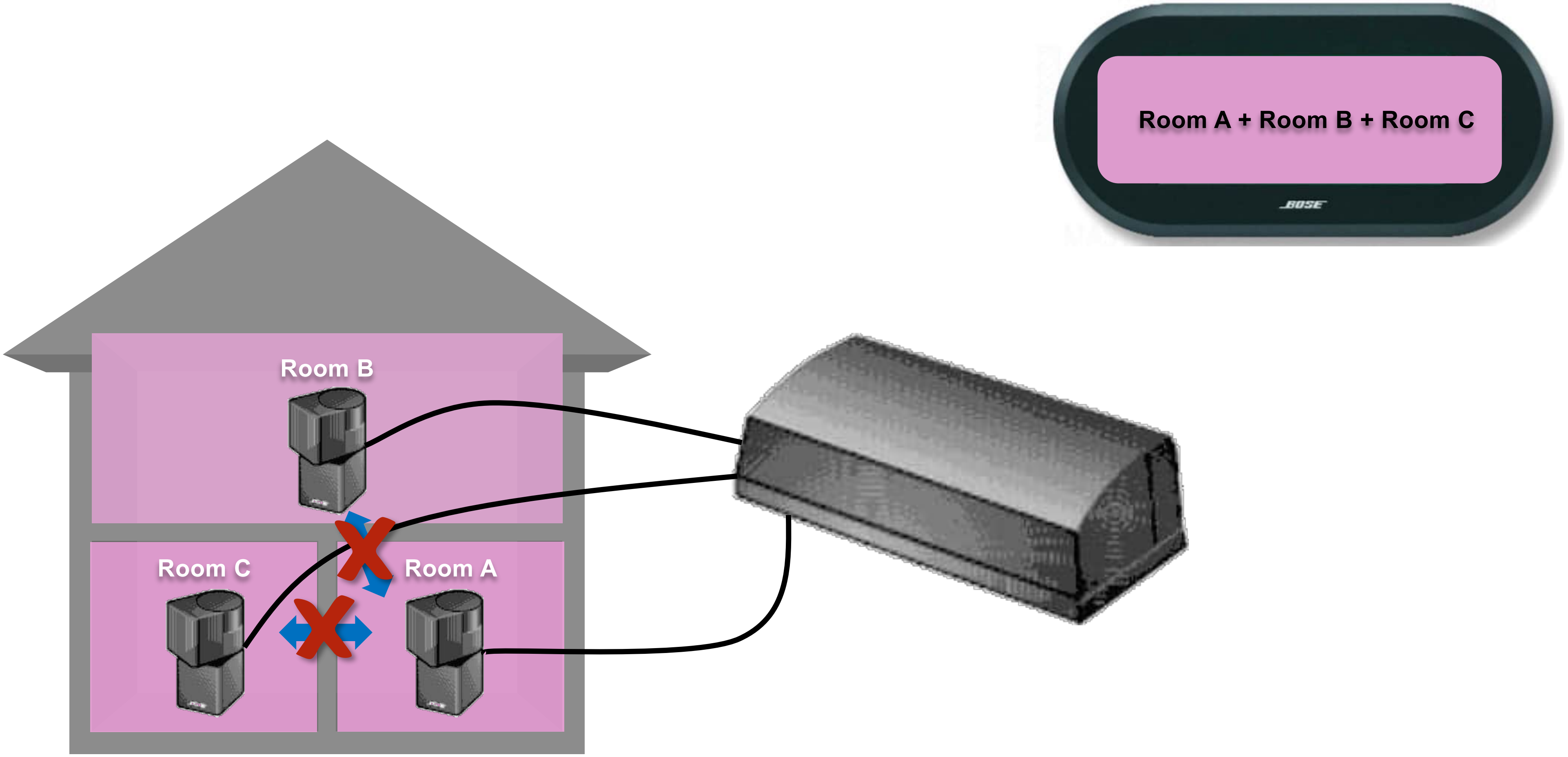

Shared Source 2
Room B
Shared Source 1
Room C
Room A
Shared Source 1

EXHIBIT A - FILED UNDER SEAL

Bose Lifestyle Ad-Hoc Grouping


Room A + Room B + Room C
BOSE
Room B
Room C
Room A

Bose Lifestyle Ad-Hoc Grouping

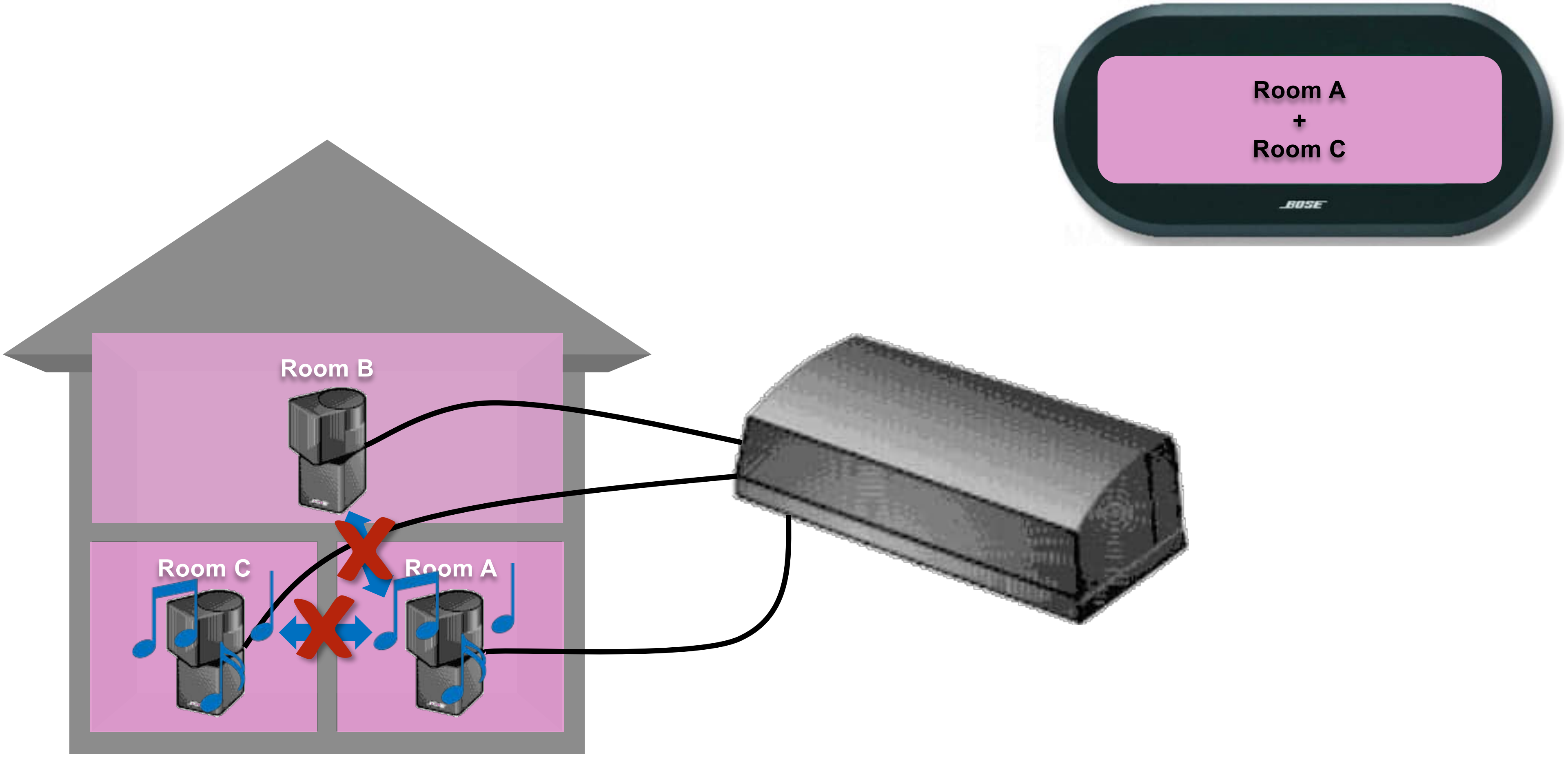

Room A
+
Room C
BOSE
Room B
Room C
Room A

EXHIBIT A - FILED UNDER SEAL

Bose Lifestyle Ad-Hoc Grouping

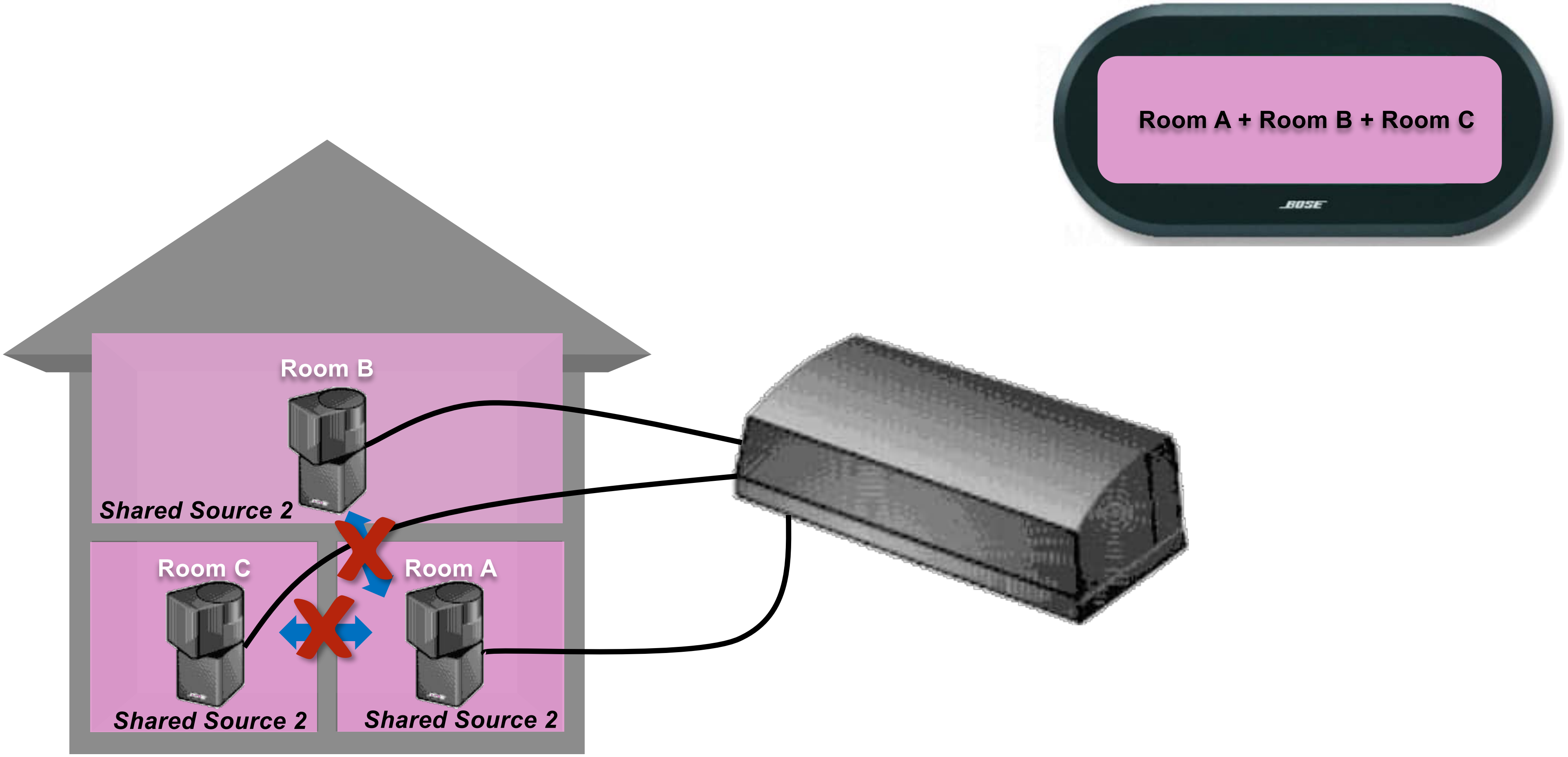
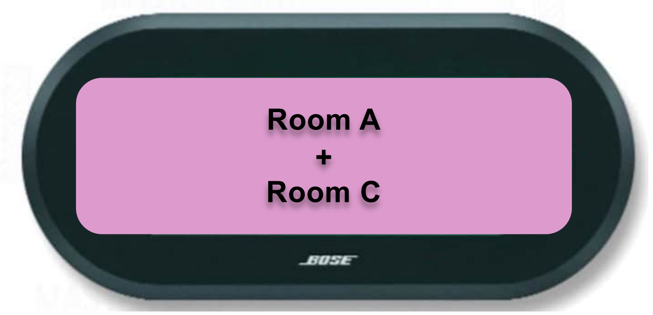

Room A + Room B + Room C
BOSE
Room B
Shared Source 2
Room C
Room A
Shared Source 2
Shared Source 2

EXHIBIT A - FILED UNDER SEAL

Bose Lifestyle Ad-Hoc Grouping


Room A
+
Room C
BOSE

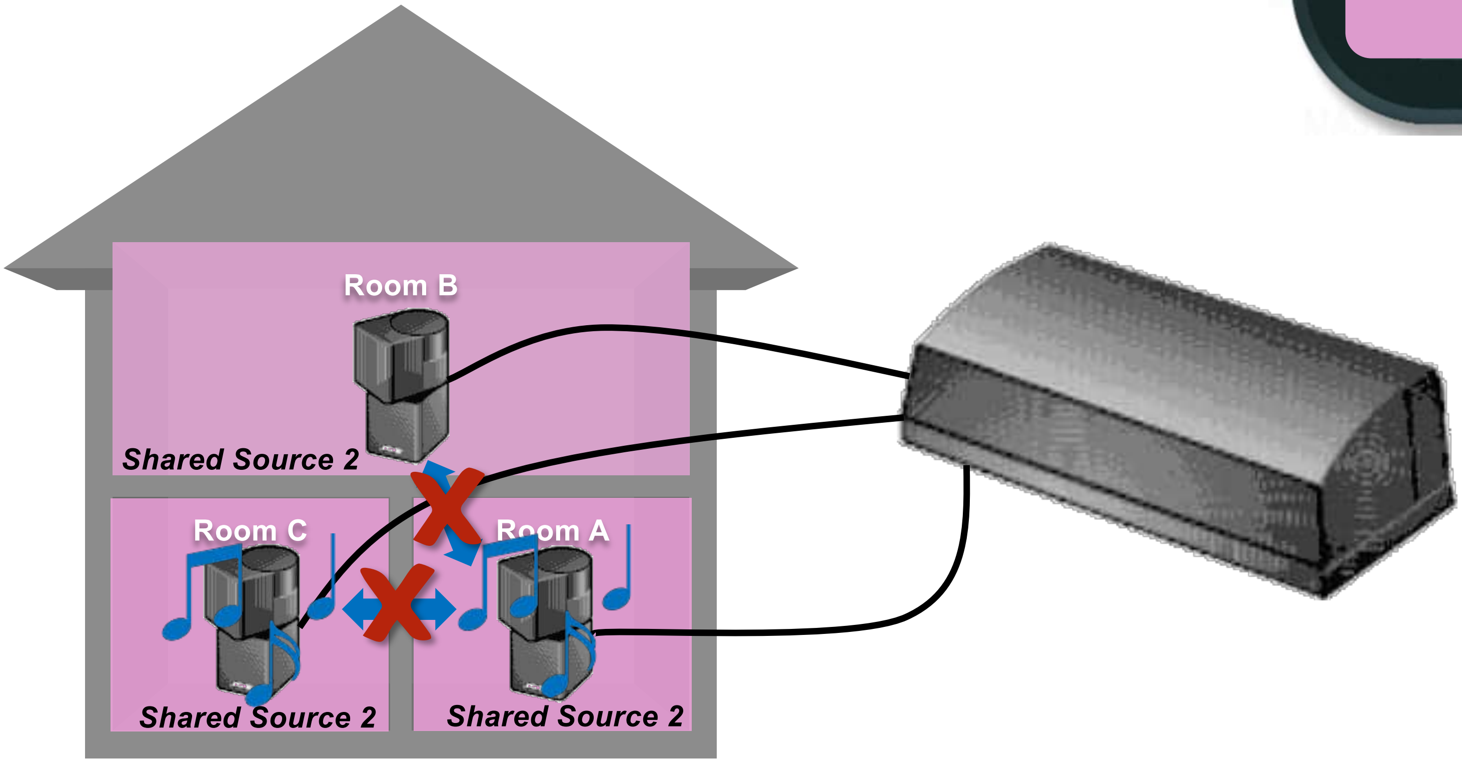
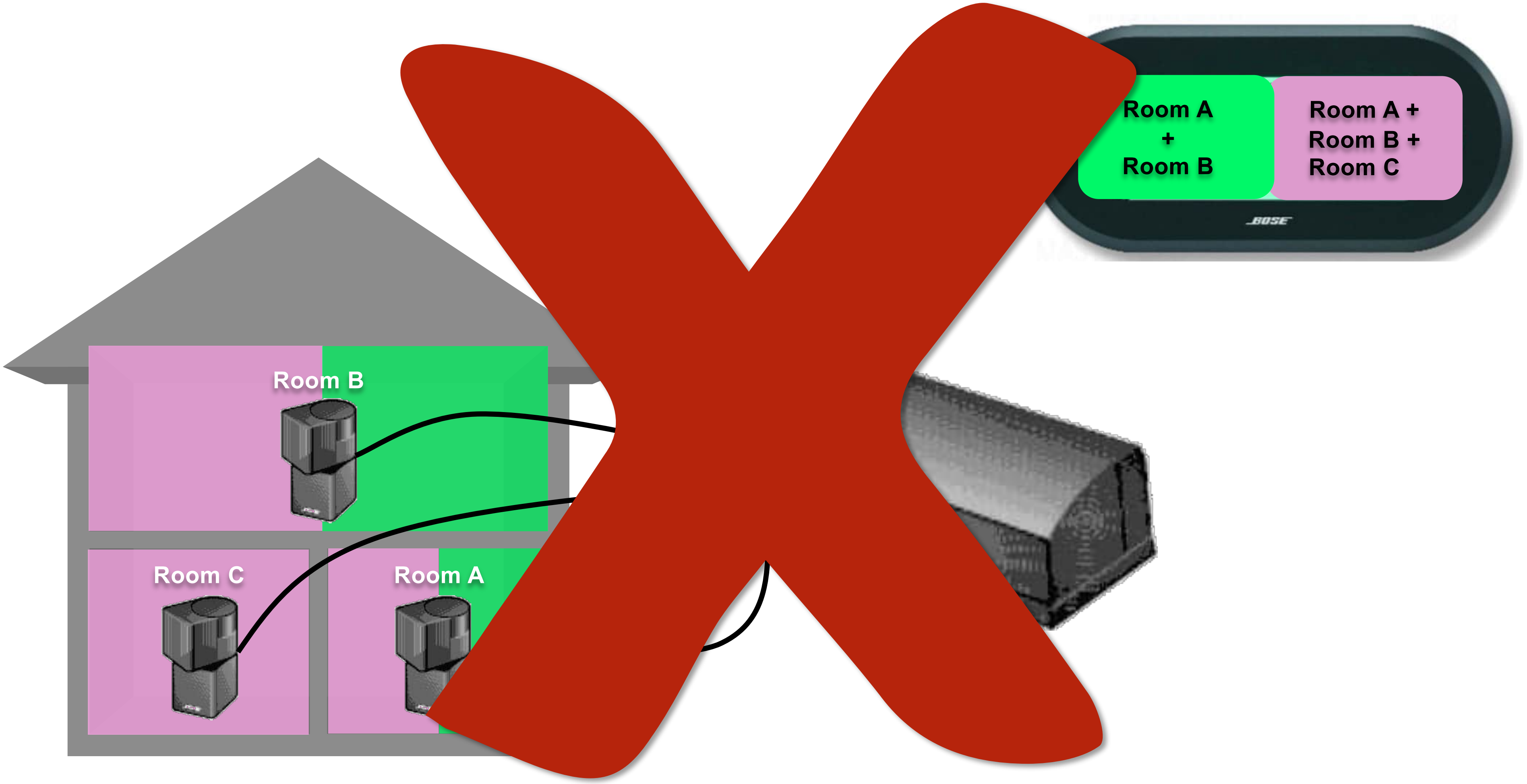
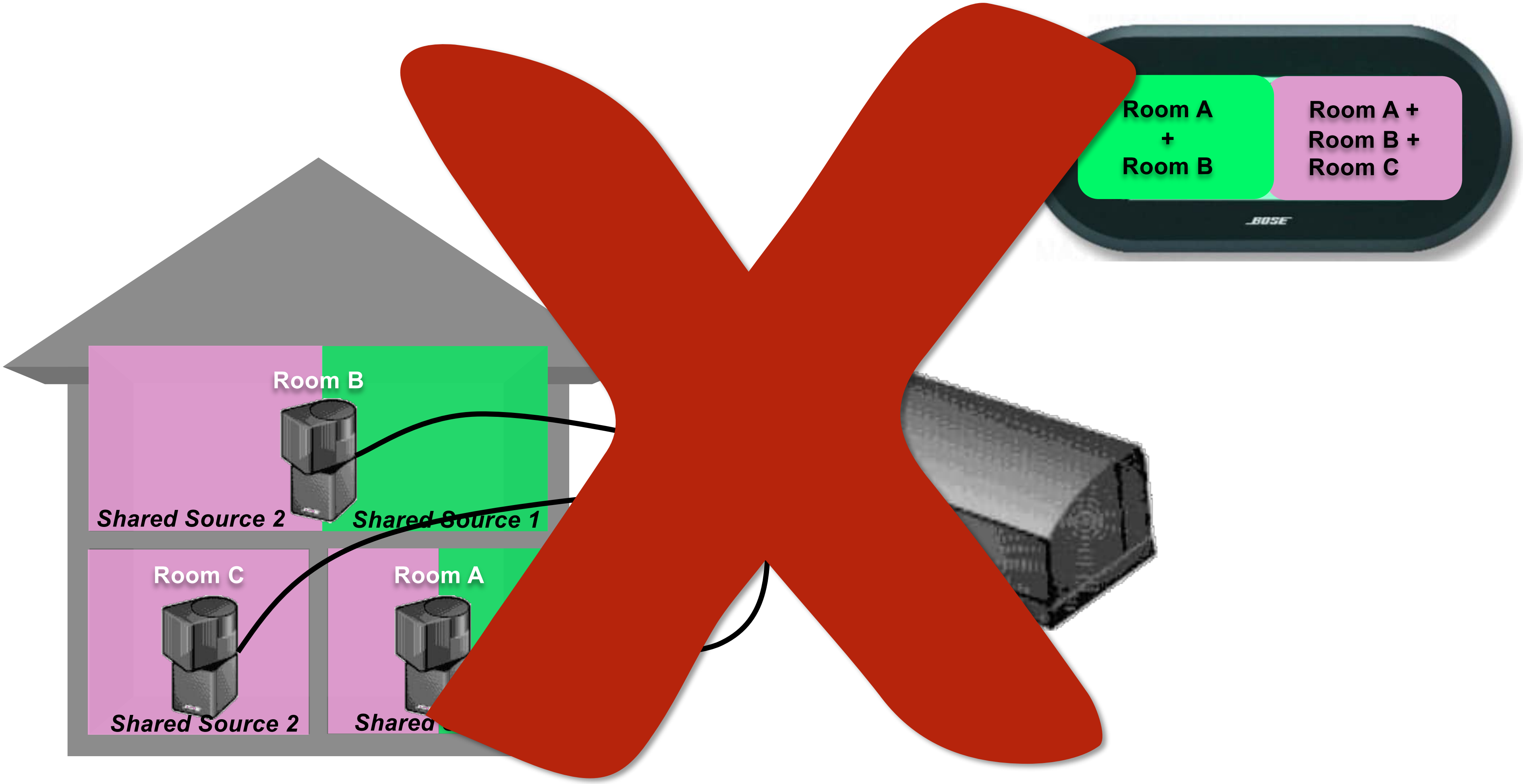

Room B
Shared Source 2
Room C
Shared Source 2
Room A
Shared Source 2

EXHIBIT A - FILED UNDER SEAL

Bose Lifestyle Ad-Hoc Grouping – No Overlapping Groups


Room A + Room B
Room A + Room B + Room C
BOSE
Room B
Room C
Room A

Bose Lifestyle Ad-Hoc Grouping – No Overlapping Groups


Room A
+
Room B
Room A +
Room B +
Room C
BOSE
Room B
Shared Source 2
Shared Source 1
Room C
Shared Source 2
Room A
Shared

’885 Claim 1 Not Obvious based on Bose Lifestyle

‘885 Claim 1	**Bose Lifestyle**
[1.0] A first **zone player** comprising **[1.1]** a **network interface** that is configured to communicatively couple the first zone player to at least one **data network**; **[1.2]** **one or more processors**; **[1.3]** a **non-transitory computer-readable medium**; and **[1.4]** **program instructions** stored on the **non-transitory computer-readable medium** that, when **executed by the one or more processors**, cause the first zone player to perform functions comprising:	✗
[1.5] **while operating in a standalone mode** in which the first **zone player** is configured to play back media individually in a **networked media playback system** comprising the first **zone player** and at least two other **zone players**:	✗
[1.6] (i) **receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene** comprising a first predefined grouping of zone players including at least **the first zone player and a second zone player** that are to be configured for synchronous playback of media when the first zone scene is invoked; and	✗
[1.7] (ii) **receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene** comprising a second predefined grouping of zone players including at least **the first zone player and a third zone player** that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;	✗
[1.8] **after receiving the first and second indications, continuing to operate in the standalone mode** until a given one of the first and second zone scenes has been selected for invocation;	✗
[1.9] **after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes** respectively comprising a given one of the first and second predefined groupings of zone players; and	✗
[1.10] **based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player** in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.	✗

’885 Patent Claim 1 Not Obvious Over ’645 Patent Claim 1

’885 Patent Claim 1

[1.0] A **first zone player** comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

’645 Patent Claim 1

1. A **multimedia controller** including a processor, the controller configured to:

receive, at the controller via a packet network, a zone group configuration;

display, via a user interface, a plurality of zones, each zone containing at least one zone player to playback multimedia content from a multimedia source;

’885 Patent Claim 1 Not Obvious Over ’645 Patent Claim 1

’885 Patent Claim 1

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

’645 Patent Claim 1

display, via a user interface, a plurality of zones, each zone containing at least one zone player to playback multimedia content from a multimedia source;

’885 Patent Claim 1 Not Obvious Over ’645 Patent Claim 1

’885 Patent Claim 1

[1.6] (i) receiving, **from a network device** over a data network, a **first indication that the first zone player has been added to a first zone scene** comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are **to be configured for synchronous playback of media when the first zone scene is invoked**; and

’645 Patent Claim 1

receive, **via the user interface**, a **first user input**, the first user input **selecting a first zone of the plurality of zones** and, wherein the **first user input instructs the first zone of the plurality of zones to play a first multimedia content**;

’885 Patent Claim 1 Not Obvious Over ’645 Patent Claim 1

’885 Patent Claim 1

[1.7] (ii) receiving, **from the network device** over the data network, a **second indication that the first zone player has been added to a second zone scene** comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are **to be configured for synchronous playback of media when the second zone scene is invoked**, wherein the second zone player is different than the third zone player;

’645 Patent Claim 1

receive, **via the user interface**, a **second user input**, the second user input **identifying at least one additional zone of the plurality of zones to be grouped with the first zone into a zone group**, such that the zone group **will synchronously play the first multimedia content** currently being played by the first zone;

’885 Patent Claim 1 Not Obvious Over ’645 Patent Claim 1

’885 Patent Claim 1

[1.8] **after receiving** the first and second indications, **continuing to operate in the standalone mode** until a given one of the first and second **zone scenes** has been **selected for invocation**;
[1.9] **after** the given one of the first and second **zone scenes** has been **selected for invocation**, **receiving**, from the network device over the data network, an **instruction to operate in accordance with a given one of the first and second zone scenes** respectively comprising a given one of the first and second predefined groupings of zone players; and
[1.10] based on the instruction, **transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players** such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

’645 Patent Claim 1

transmit, to a zone player of the **zone group** via a packet network, a **modified zone group configuration**, wherein the modified zone group configuration causes the zone player of the zone group **to configure the zones in the zone group to synchronize playback of the first multimedia** content currently being played by the first zone; and

’885 Patent Claim 1 Not Obvious Over ’645 Patent Claim 1

’885 Patent Claim 1

[1.0] A **first zone player** comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

’645 Patent Claim 1

1. A **multimedia controller** including a processor, the controller configured to:

receive, at the controller via a packet network, a zone group configuration;

display, via a user interface, a plurality of zones, each zone containing at least one zone player to playback multimedia content from a multimedia source;

’885 Patent Claim 1 Not Obvious Over ’645 Patent Claim 1

’885 Patent Claim 1

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

’645 Patent Claim 1

display, via a user interface, a plurality of zones, each zone containing at least one zone player to playback multimedia content from a multimedia source;

’885 Patent Claim 1 Not Obvious Over ’645 Patent Claim 1

’885 Patent Claim 1

[1.6] (i) **receiving**, from a network device over a data network, a **first indication** that the first zone player has been added to a **first zone scene** comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are **to be configured for synchronous playback of media when the first zone scene is invoked**; and

[1.7] (ii) **receiving**, from the network device over the data network, a **second indication** that the first zone player has been added to a **second zone scene** comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are **to be configured for synchronous playback of media when the second zone scene is invoked**, wherein the second zone player is different than the third zone player;

[1.8] **after receiving** the first and second indications, **continuing to operate in the standalone mode** until a given one of the first and second zone scenes has been selected for invocation;

’645 Patent Claim 1

display, via a user interface, a plurality of zones, each zone containing at least one zone player to playback multimedia content from a multimedia source;

transmit, to a zone player of the **zone group** via a packet network, a **modified zone group configuration**, wherein the modified zone group configuration causes the zone player of the zone group **to configure the zones in the zone group to synchronize playback of the first multimedia** content currently being played by the first zone; and

’885 Patent Claim 1 Not Obvious Over ’645 Patent Claim 1

’885 Patent Claim 1

[1.9] after the given one of the first and second **zone scenes has been selected for invocation**, receiving, from the network device over the data network, an **instruction to operate in accordance with a given one of the first and second zone scenes** respectively comprising a given one of the first and second predefined groupings of zone players; and

’645 Patent Claim 1

receive, via the user interface, a **first user input**, the first user input selecting a first zone of the plurality of zones and, wherein the **first user input instructs the first zone of the plurality of zones to play a first multimedia content**;

’885 Patent Claim 1 Not Obvious Over ’645 Patent Claim 1

’885 Patent Claim 1

[1.10] based on the instruction, **transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players** such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

’645 Patent Claim 1

receive, via the user interface, a second user input, the second user input **identifying at least one additional zone of the plurality of zones to be grouped with the first zone into a zone group**, such that the zone group will synchronously play the first multimedia content currently being played by the first zone;

Sonos Forums Do Not Disclose Claimed Zone Scene Technology

’885 Patent Claim 1

[1.0] A first zone player comprising . . . **[1.4]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] **while operating in a standalone mode** in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

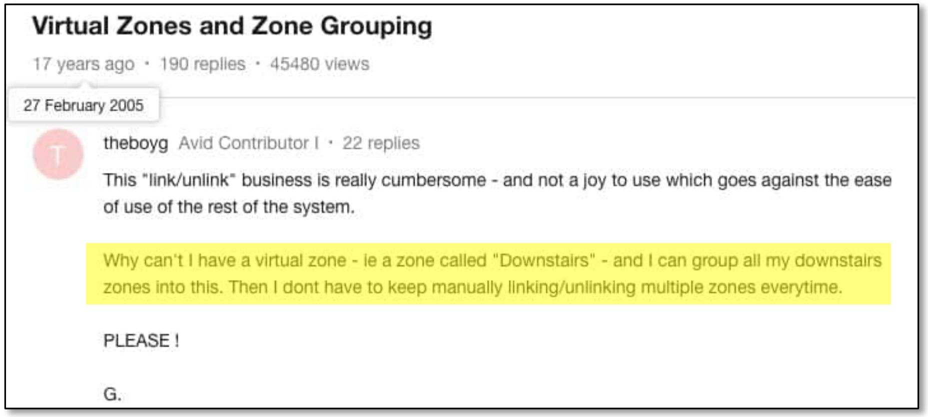
> **[1.6]** (i) **receiving**, from a network device over a data network, a **first indication that the first zone player has been added to a first zone scene** comprising a first predefined grouping of zone players including at least **the first zone player and a second zone player** that are to be configured for synchronous playback of media when the first zone scene is invoked; and
>
> **[1.7]** (ii) **receiving**, from the network device over the data network, a **second indication that the first zone player has been added to a second zone scene** comprising a second predefined grouping of zone players including at least **the first zone player and a third zone player** that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] **after receiving the first and second indications, continuing to operate in the standalone mode** until a given one of the first and second zone scenes has been selected for invocation;

[1.9] **after the given one of the first and second zone scenes has been selected for invocation, receiving**, from the network device over the data network, an **instruction to operate in accordance with a given one of the first and second zone scenes** respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] **based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings** of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Sonos Forums



Virtual Zones and Zone Grouping

17 years ago · 190 replies · 45480 views

27 February 2005

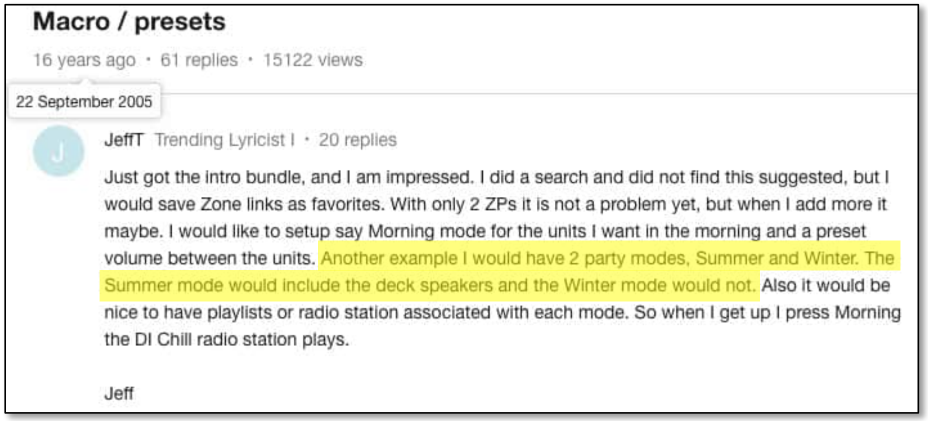
theboyg Avid Contributor I · 22 replies

This "link/unlink" business is really cumbersome - and not a joy to use which goes against the ease of use of the rest of the system.

Why can't I have a virtual zone - ie a zone called "Downstairs" - and I can group all my downstairs zones into this. Then I dont have to keep manually linking/unlinking multiple zones everytime.

PLEASE !

G.



Macro / presets

16 years ago · 61 replies · 15122 views

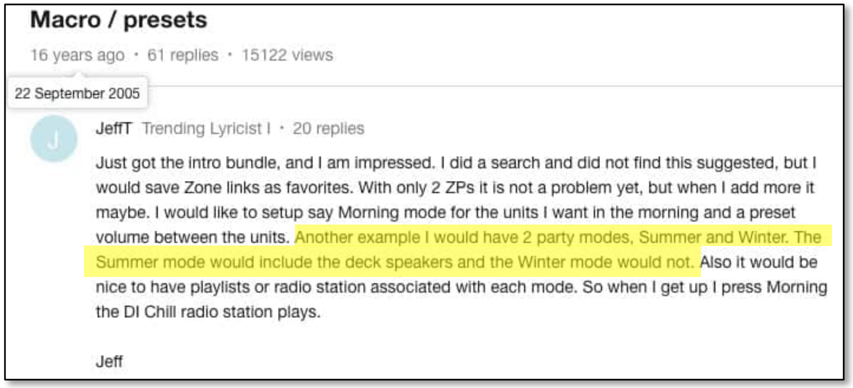
22 September 2005

JeffT Trending Lyricist I · 20 replies

Just got the intro bundle, and I am impressed. I did a search and did not find this suggested, but I would save Zone links as favorites. With only 2 ZPs it is not a problem yet, but when I add more it maybe. I would like to setup say Morning mode for the units I want in the morning and a preset volume between the units. Another example I would have 2 party modes, Summer and Winter. The Summer mode would include the deck speakers and the Winter mode would not. Also it would be nice to have playlists or radio station associated with each mode. So when I get up I press Morning the DI Chill radio station plays.

Jeff

Dr. Schonfeld's "Sonos Forums" Reference



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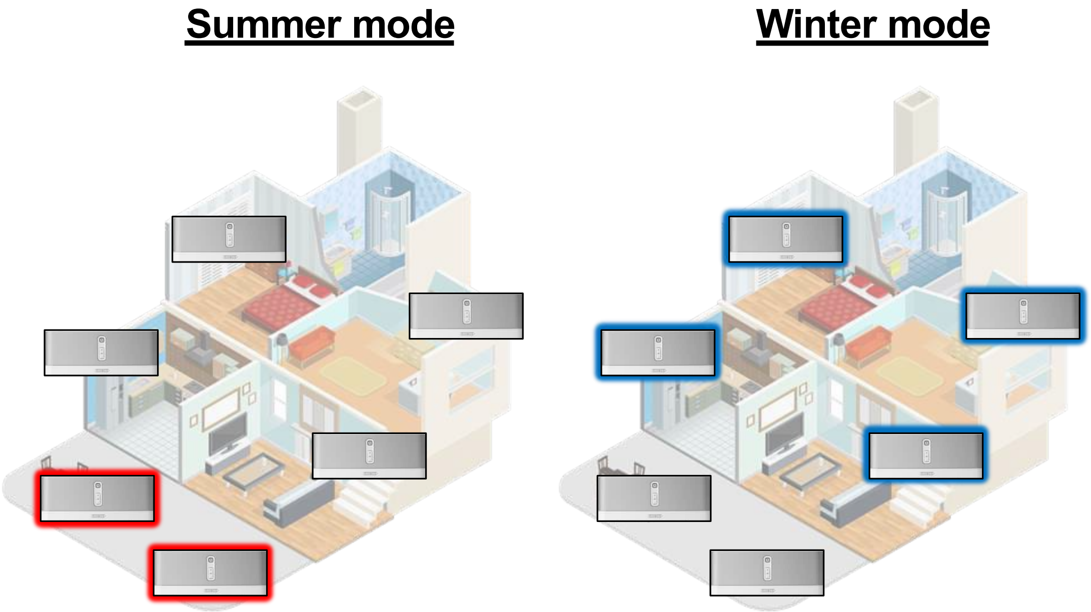
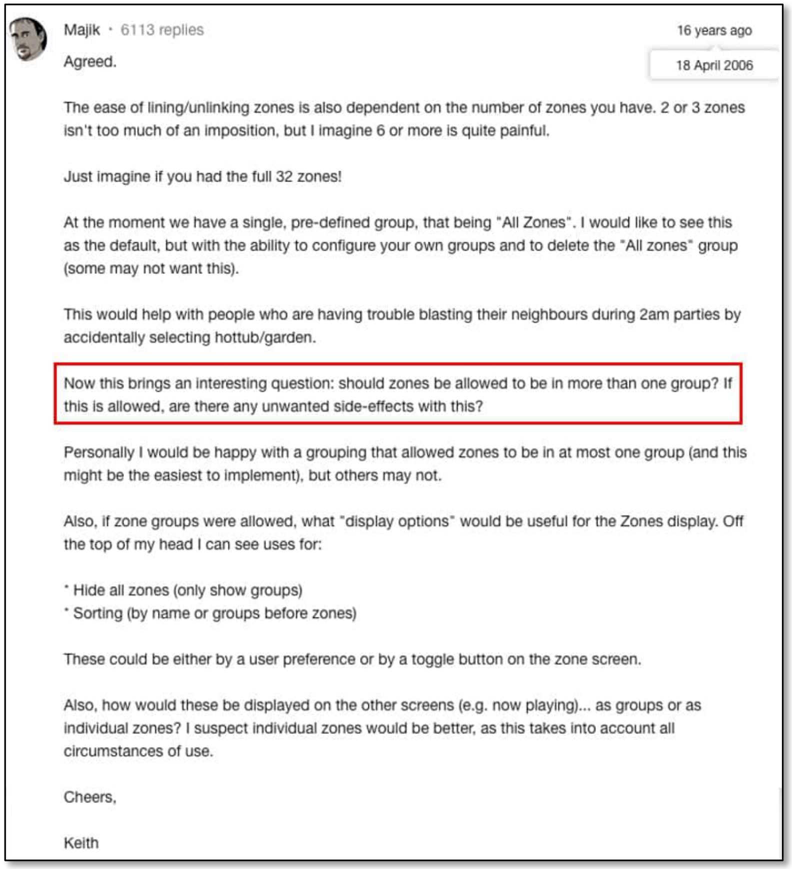
Just got the intro bundle, and I am impressed. I did a search and did not find this suggested, but I would save Zone links as favorites. With only 2 ZPs it is not a problem yet, but when I add more it maybe. I would like to setup say Morning mode for the units I want in the morning and a preset volume between the units. Another example I would have 2 party modes, Summer and Winter. The Summer mode would include the deck speakers and the Winter mode would not. Also it would be nice to have playlists or radio station associated with each mode. So when I get up I press Morning the DI Chill radio station plays.

Jeff



Dr. Schonfeld's "Sonos Forums" Reference



Majik · 6113 replies

16 years ago

18 April 2006

Agreed.

The ease of lining/unlinking zones is also dependent on the number of zones you have. 2 or 3 zones isn't too much of an imposition, but I imagine 6 or more is quite painful.

Just imagine if you had the full 32 zones!

At the moment we have a single, pre-defined group, that being "All Zones". I would like to see this as the default, but with the ability to configure your own groups and to delete the "All zones" group (some may not want this).

This would help with people who are having trouble blasting their neighbours during 2am parties by accidentally selecting hottub/garden.

Now this brings an interesting question: should zones be allowed to be in more than one group? If this is allowed, are there any unwanted side-effects with this?

Personally I would be happy with a grouping that allowed zones to be in at most one group (and this might be the easiest to implement), but others may not.

Also, if zone groups were allowed, what "display options" would be useful for the Zones display. Off the top of my head I can see uses for:

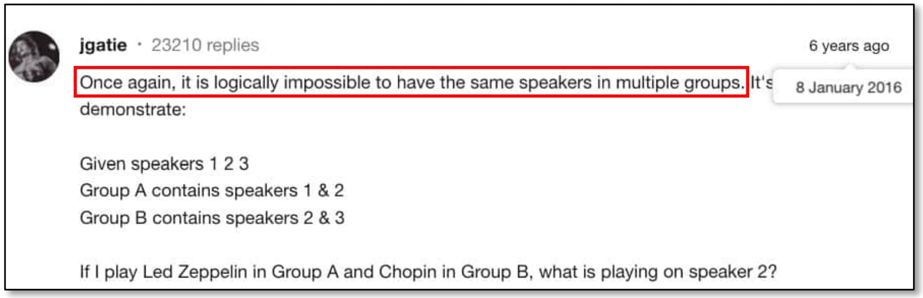
* Hide all zones (only show groups)
* Sorting (by name or groups before zones)

These could be either by a user preference or by a toggle button on the zone screen.

Also, how would these be displayed on the other screens (e.g. now playing)... as groups or as individual zones? I suspect individual zones would be better, as this takes into account all circumstances of use.

Cheers,

Keith



jgatie · 23210 replies

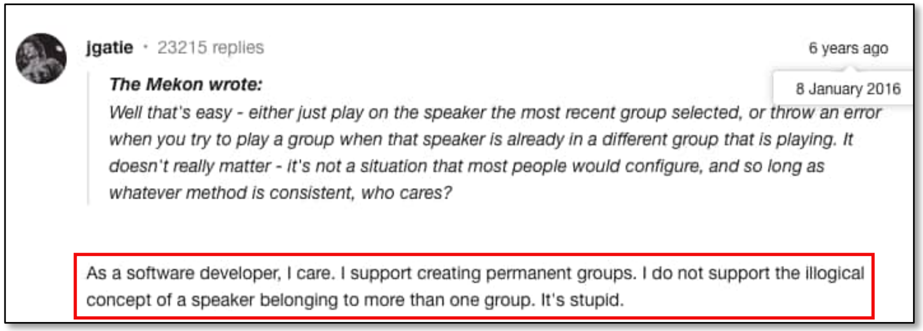
6 years ago

8 January 2016

Once again, it is logically impossible to have the same speakers in multiple groups. It's
demonstrate:

Given speakers 1 2 3
Group A contains speakers 1 & 2
Group B contains speakers 2 & 3

If I play Led Zeppelin in Group A and Chopin in Group B, what is playing on speaker 2?



jgatie · 23215 replies

6 years ago

8 January 2016

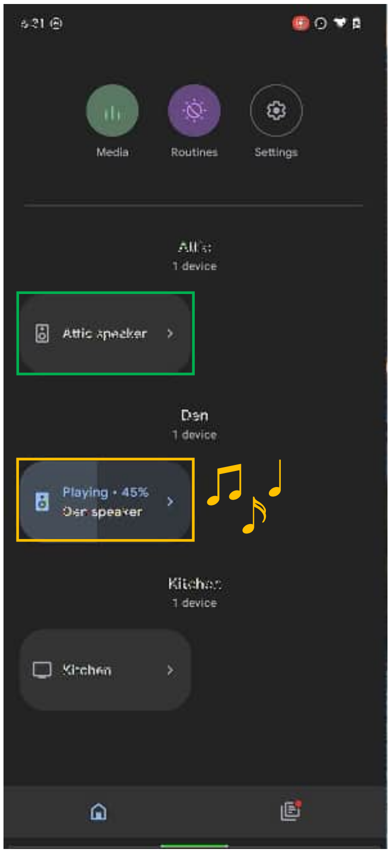
> ***The Mekon wrote:***
> *Well that's easy - either just play on the speaker the most recent group selected, or throw an error when you try to play a group when that speaker is already in a different group that is playing. It doesn't really matter - it's not a situation that most people would configure, and so long as whatever method is consistent, who cares?*

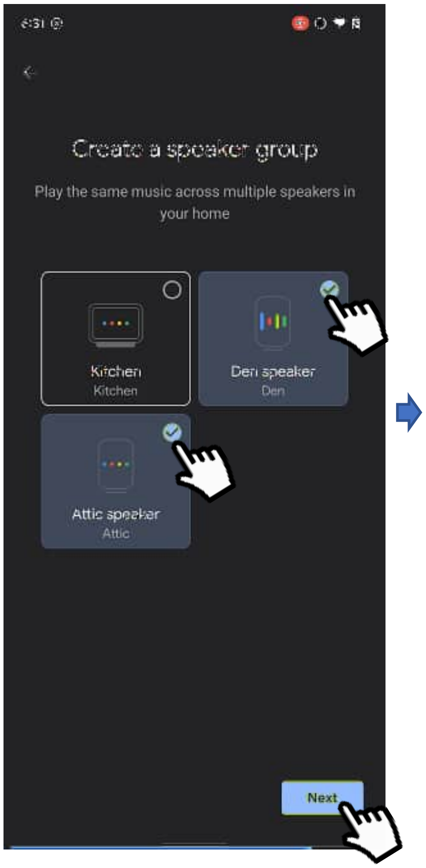
As a software developer, I care. I support creating permanent groups. I do not support the illogical concept of a speaker belonging to more than one group. It's stupid.

Appendix A

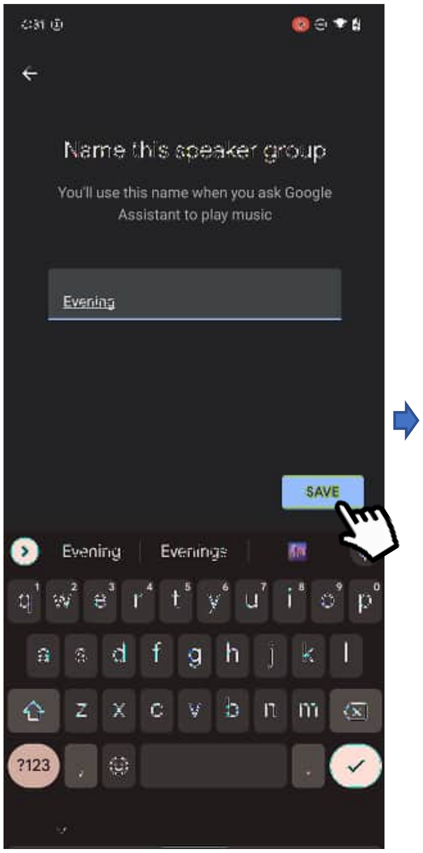
Creating a New Speaker Group

Scenario #1: A first Accused Google Player ("Attic speaker") that is operating in standalone mode and not engaging in active playback and a second Accused Google Player ("Den speaker") that is operating in standalone mode and is individually engaging in active playback are both added to a new speaker group ("Evening").


6:31
Media
Routines
Settings
Attic
1 device
Attic speaker
Den
1 device
Playing • 45%
Den speaker
Kitchen
1 device
Kitchen

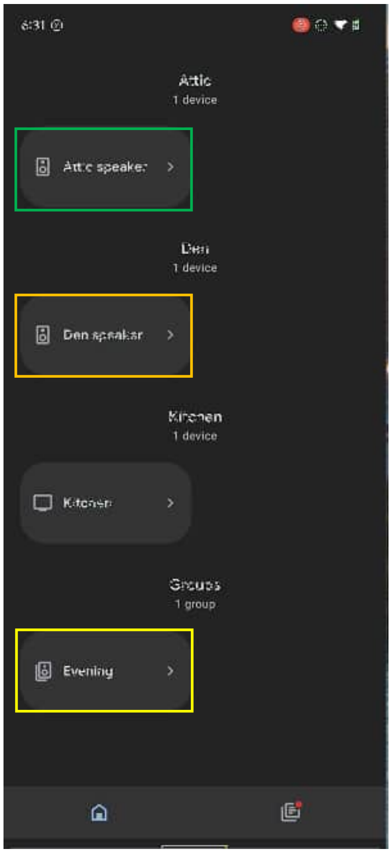

Create a speaker group

Play the same music across multiple speakers in your home
6:31
Kitchen
Kitchen
Den speaker
Den
Attic speaker
Attic
Next


Name this speaker group

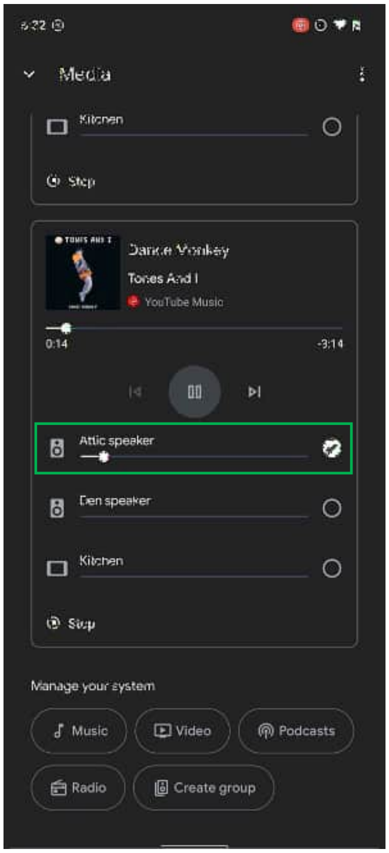
You'll use this name when you ask Google Assistant to play music

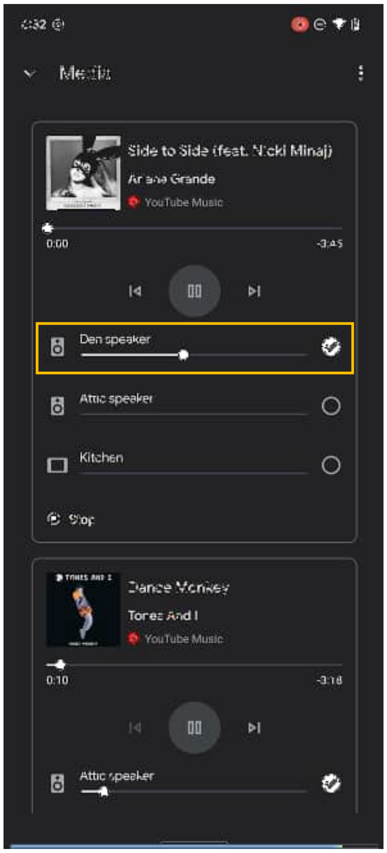
Evening
6:31
SAVE
Evening
Evenings
q w e r t y u i o p
a s d f g h j k l
z x c v b n m
?123

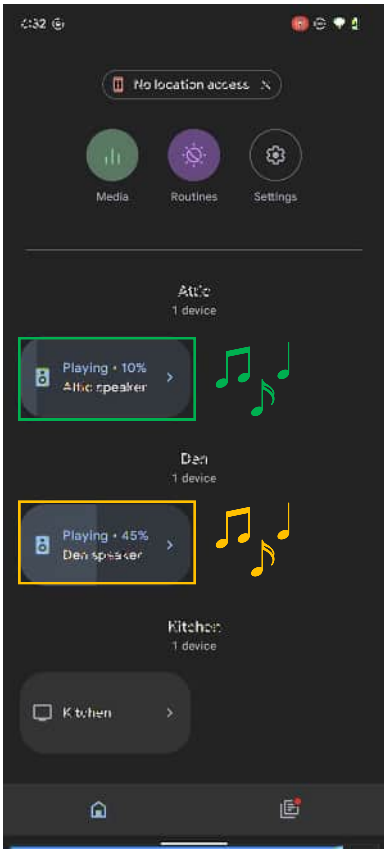

6:31
Attic
1 device
Attic speaker
Den
1 device
Den speaker
Kitchen
1 device
Kitchen
Groups
1 group
Evening

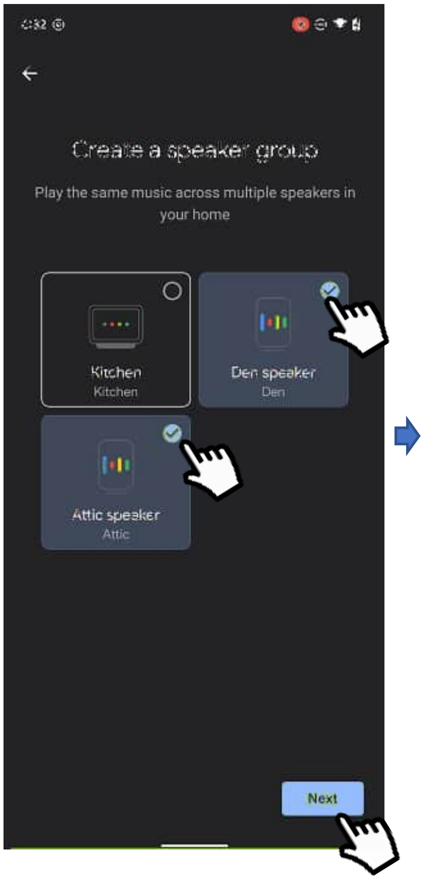
Creating a New Speaker Group

Scenario #2: A first Accused Google Player ("Attic speaker") that is operating in standalone mode and is individually engaging in active playback (playing "Dance Monkey") and a second Accused Google Player ("Den speaker") that is operating in standalone mode is individually engaging in active playback (playing "Side to Side") are both added to a new speaker group ("Evening").


6:22
Media
Kitchen
Stop
Dance Monkey
Tones And I
YouTube Music
0:14
-3:14
Attic speaker
Den speaker
Kitchen
Stop
Manage your system
Music
Video
Podcasts
Radio
Create group

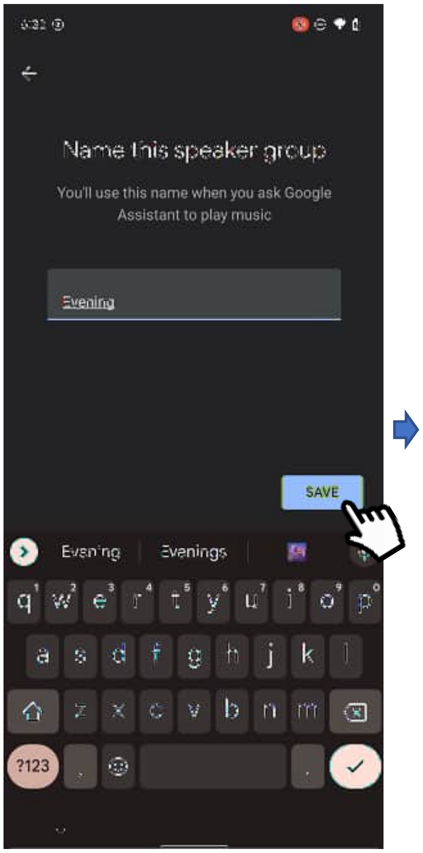

6:32
Media
Side to Side (feat. Nicki Minaj)
Ariana Grande
YouTube Music
0:00
-3:45
Den speaker
Attic speaker
Kitchen
Stop
Dance Monkey
Tones And I
YouTube Music
0:10
-3:18
Attic speaker


6:32
No location access
Media
Routines
Settings
Attic
1 device
Playing • 10%
Attic speaker
Den
1 device
Playing • 45%
Den speaker
Kitchen
1 device
Kitchen


6:32
Create a speaker group

Play the same music across multiple speakers in your home

Kitchen
Kitchen
Den speaker
Den
Attic speaker
Attic
Next


6:32
Name this speaker group

You'll use this name when you ask Google Assistant to play music

Evening

SAVE
Evening
Evenings
?123

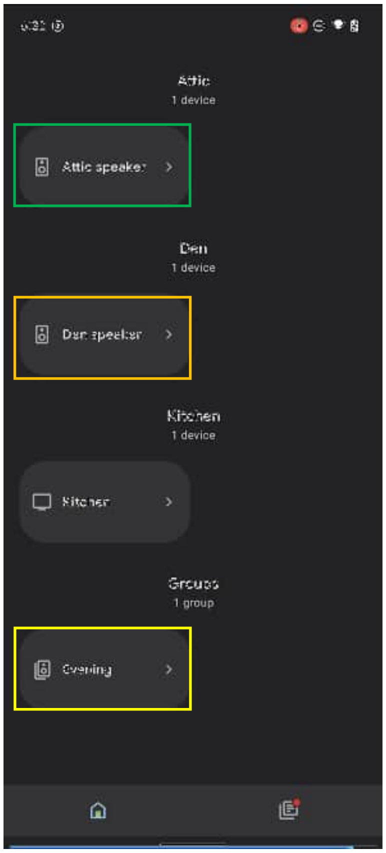
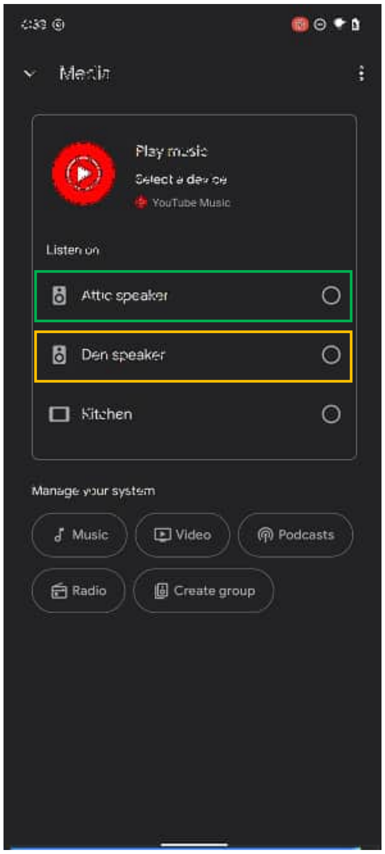

6:32
Attic
1 device
Attic speaker
Den
1 device
Den speaker
Kitchen
1 device
Kitchen
Groups
1 group
Evening

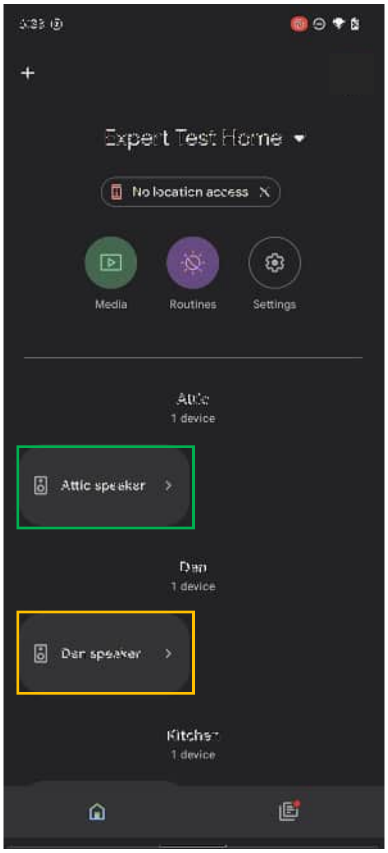
EXHIBIT A - FILED UNDER SEAL

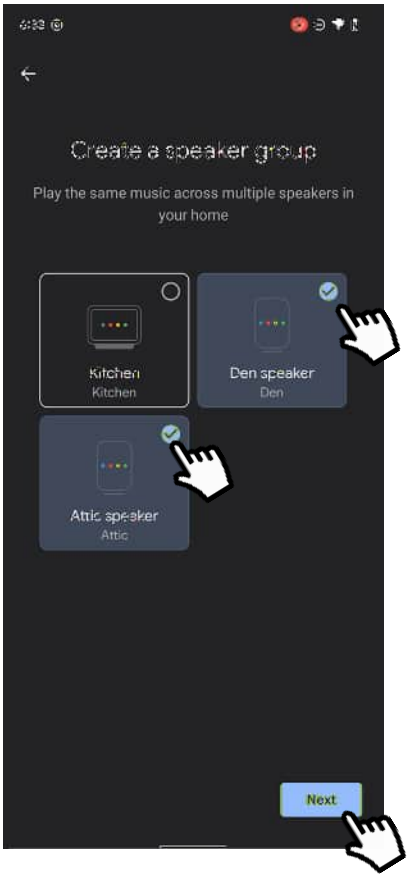
Creating a New Speaker Group

Scenario #3: A first Accused Google Player ("Attic speaker") that is operating in standalone mode and not engaging in active playback and a second Accused Google Player ("Den speaker") that is operating in standalone mode and not engaging in active playback are both added to a new speaker group ("Evening").

EXHIBIT A - FILED UNDER SEAL

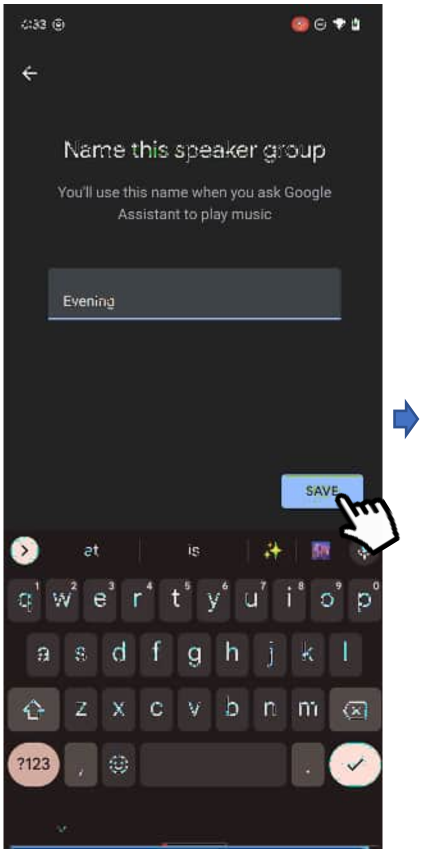

6:33
Media
Play music
Select a device
YouTube Music
Listen on
Attic speaker ○
Den speaker ○
Kitchen ○
Manage your system
Music
Video
Podcasts
Radio
Create group


6:33
+
Expert Test Home
No location access ×
Media
Routines
Settings
Attic
1 device
Attic speaker
Den
1 device
Den speaker
Kitchen
1 device


6:33
Create a speaker group

Play the same music across multiple speakers in your home

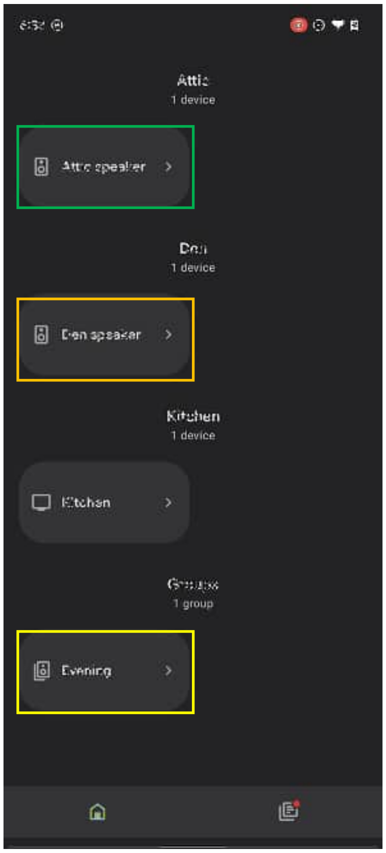
Kitchen
Kitchen
Den speaker
Den
Attic speaker
Attic
Next

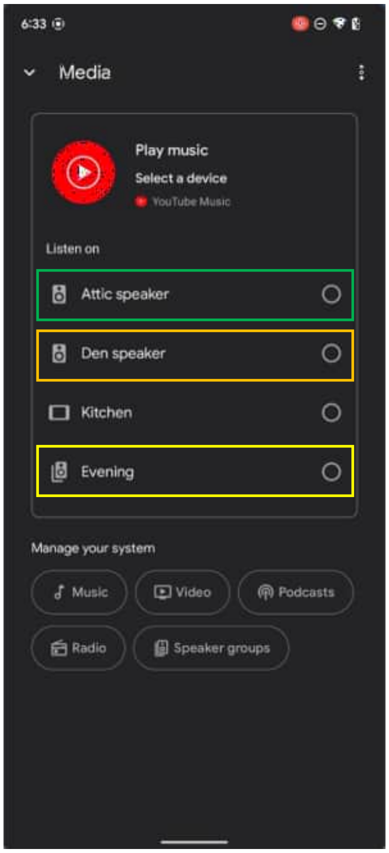

6:33
Name this speaker group

You'll use this name when you ask Google Assistant to play music

Evening

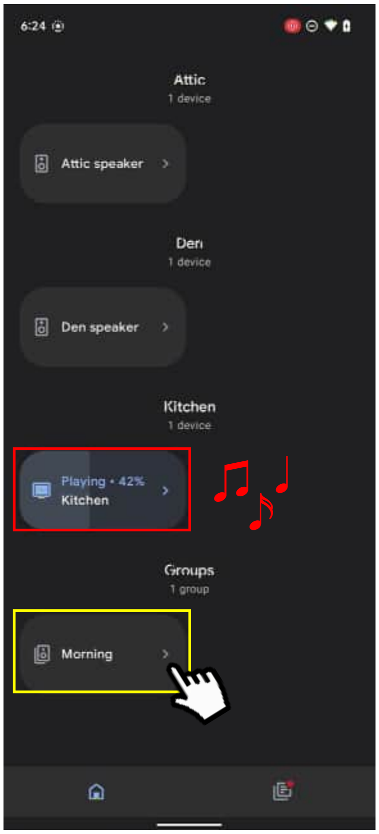
SAVE
at
is
q w e r t y u i o p
a s d f g h j k l
z x c v b n m
?123
,
.

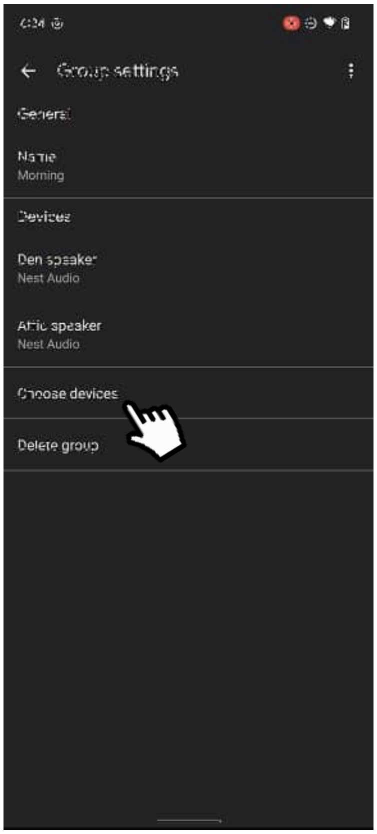

6:34
Attic
1 device
Attic speaker
Den
1 device
Den speaker
Kitchen
1 device
Kitchen
Groups
1 group
Evening

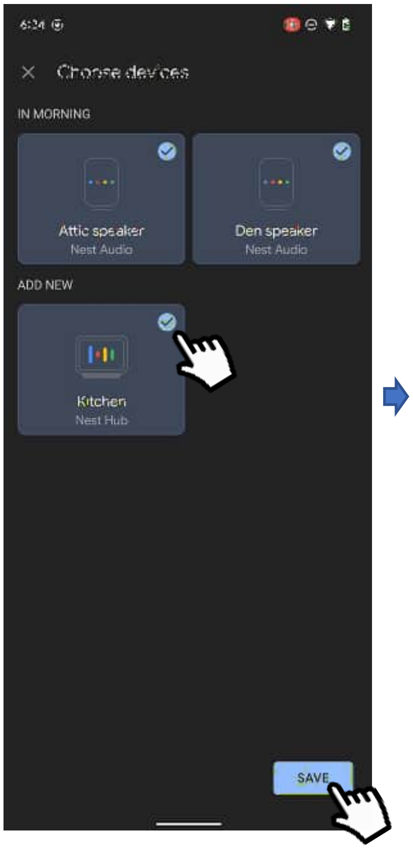

6:33
Media
Play music
Select a device
YouTube Music
Listen on
Attic speaker ○
Den speaker ○
Kitchen ○
Evening ○
Manage your system
Music
Video
Podcasts
Radio
Speaker groups

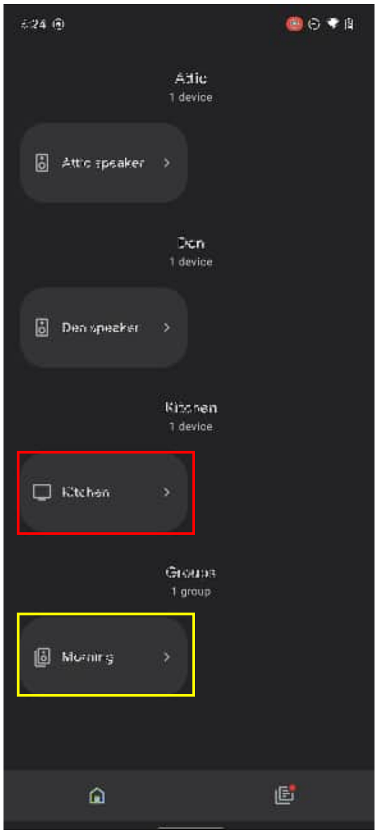
Modifying a Pre-Existing Speaker Group

Scenario #1: A target Accused Google Player ("Kitchen") that is operating in standalone mode and is individually engaging in active playback is added to a pre-existing speaker group ("Morning") of Accused Google Players ("Attic speaker" and "Den speaker") at a time when the pre-existing speaker group is not launched and each Accused Google Player in the pre-existing speaker group is operating in standalone mode in which the Accused Google Player is configured to play back audio individually.


6:24
Attic
1 device
Attic speaker
Den
1 device
Den speaker
Kitchen
1 device
Playing • 42%
Kitchen
Groups
1 group
Morning

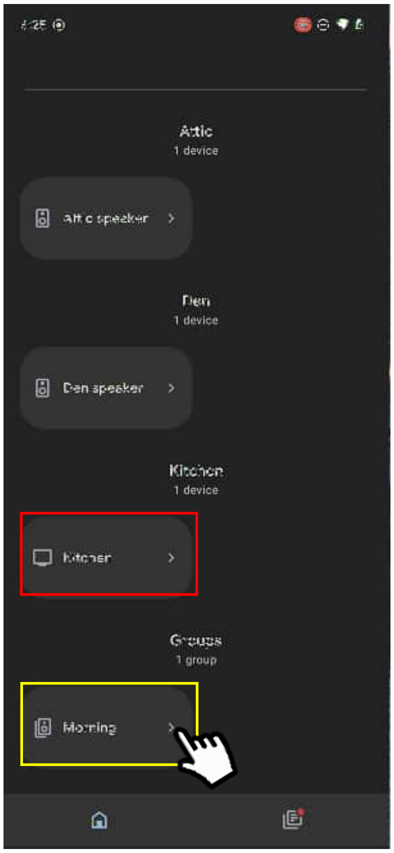

6:24
Group settings
General
Name
Morning
Devices
Den speaker
Nest Audio
Attic speaker
Nest Audio
Choose devices
Delete group


6:24
Choose devices
IN MORNING
Attic speaker
Nest Audio
Den speaker
Nest Audio
ADD NEW
Kitchen
Nest Hub
SAVE


6:24
Attic
1 device
Attic speaker
Den
1 device
Den speaker
Kitchen
1 device
Kitchen
Groups
1 group
Morning

Modifying a Pre-Existing Speaker Group

Scenario #2: A target Accused Google Player ("Kitchen") that is operating in standalone mode and is not engaging in active playback is added to a pre-existing speaker group ("Morning") of Accused Google Players ("Attic speaker" and "Den speaker") at a time when the pre-existing speaker group is not launched and each Accused Google Player in the pre-existing speaker group is operating in standalone mode in which the Accused Google Player is configured to play back audio individually.



6:25

Attic
1 device

Attic speaker

Den
1 device

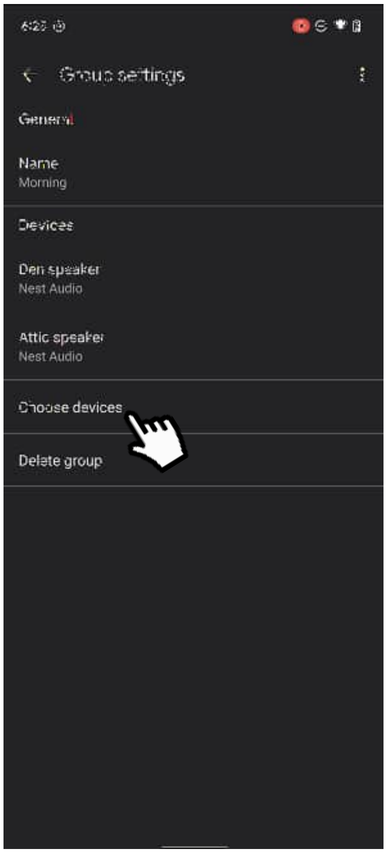
Den speaker

Kitchen
1 device

Kitchen

Groups
1 group

Morning



6:25

Group settings

General

Name
Morning

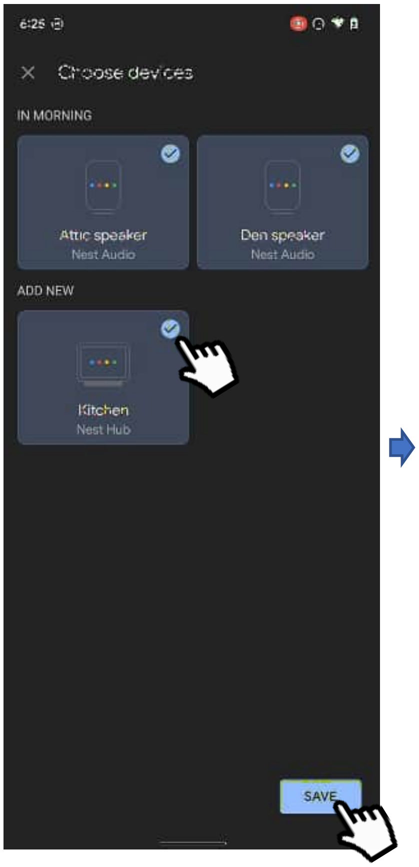
Devices

Den speaker
Nest Audio

Attic speaker
Nest Audio

Choose devices

Delete group



6:25

Choose devices

IN MORNING

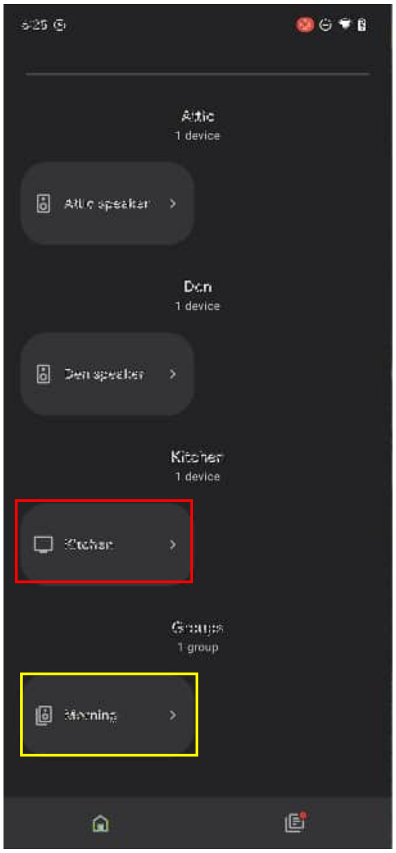
Attic speaker
Nest Audio

Den speaker
Nest Audio

ADD NEW

Kitchen
Nest Hub

SAVE



6:25

Attic
1 device

Attic speaker

Den
1 device

Den speaker

Kitchen
1 device

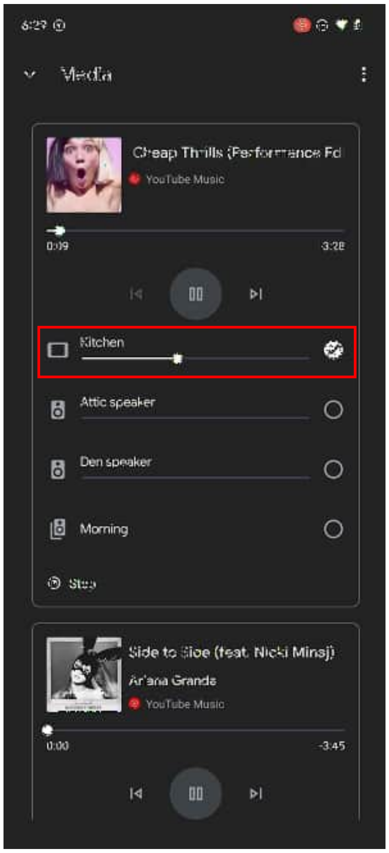
Kitchen

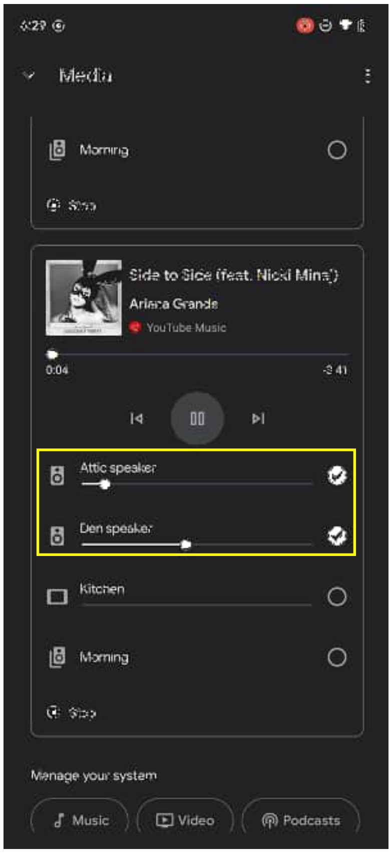
Groups
1 group

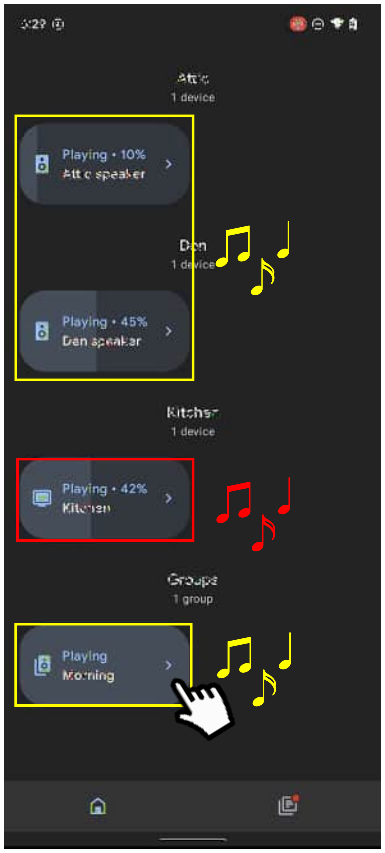
Morning

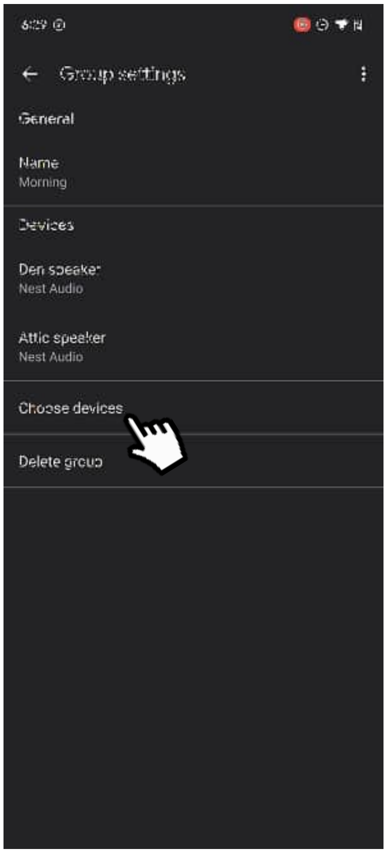
Modifying a Pre-Existing Speaker Group

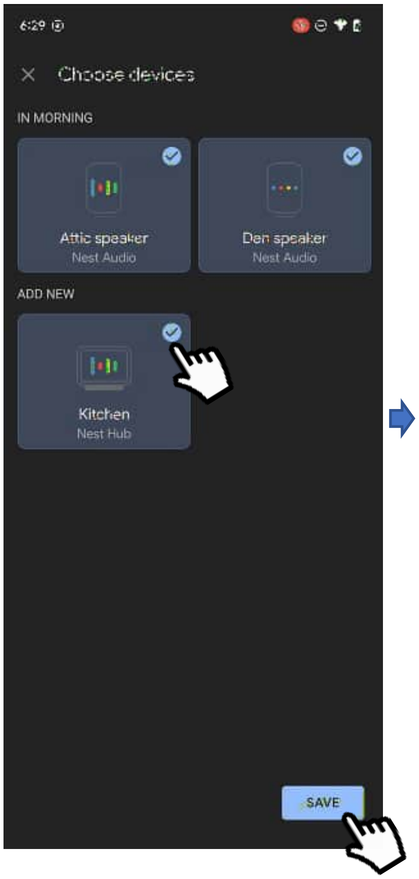
Scenario #3: A target Accused Google Player ("Kitchen") that is operating in standalone mode and is individually engaging in active playback (playing "Cheap Thrills") is added to a pre-existing speaker group ("Morning") of Accused Google Players ("Attic speaker" and "Den speaker") at a time when (i) the pre-existing speaker group is launched such that each Accused Google Player in the pre-existing speaker group is operating in a grouped mode in which the Accused Google Player is configured to play back audio as part of the pre-existing speaker group and (ii) the Accused Google Players in the pre-existing speaker group are synchronously engaging in active playback with one another (playing "Side to Side").

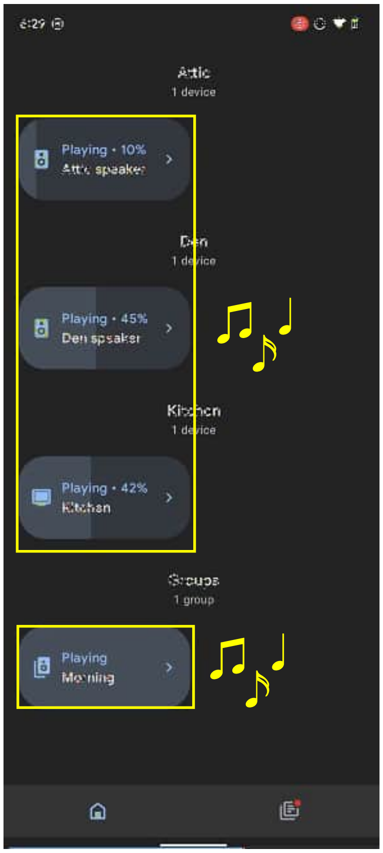

6:29
Media
Cheap Thrills (Performance Ed
YouTube Music
0:09
3:28
Kitchen
Attic speaker
Den speaker
Morning
Stop
Side to Side (feat. Nicki Minaj)
Ariana Grande
YouTube Music
0:00
-3:45

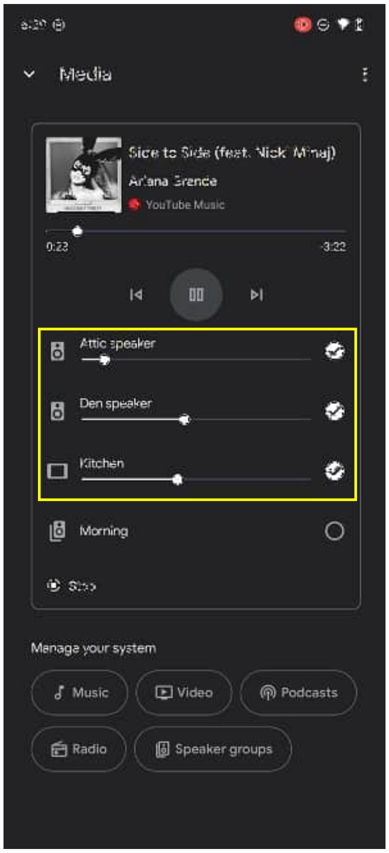

6:29
Media
Morning
Stop
Side to Side (feat. Nicki Minaj)
Ariana Grande
YouTube Music
0:04
-3:41
Attic speaker
Den speaker
Kitchen
Morning
Stop
Manage your system
Music
Video
Podcasts


6:29
Attic
1 device
Playing • 10%
Attic speaker
Den
1 device
Playing • 45%
Den speaker
Kitchen
1 device
Playing • 42%
Kitchen
Groups
1 group
Playing
Morning


6:29
Group settings
General
Name
Morning
Devices
Den speaker
Nest Audio
Attic speaker
Nest Audio
Choose devices
Delete group

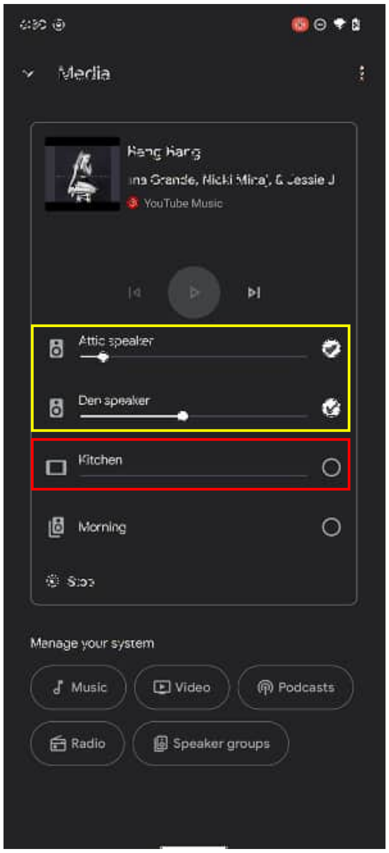

6:29
Choose devices
IN MORNING
Attic speaker
Nest Audio
Den speaker
Nest Audio
ADD NEW
Kitchen
Nest Hub
SAVE


6:29
Attic
1 device
Playing • 10%
Attic speaker
Den
1 device
Playing • 45%
Den speaker
Kitchen
1 device
Playing • 42%
Kitchen
Groups
1 group
Playing
Morning


6:29
Media
Side to Side (feat. Nicki Minaj)
Ariana Grande
YouTube Music
0:23
3:22
Attic speaker
Den speaker
Kitchen
Morning
Stop
Manage your system
Music
Video
Podcasts
Radio
Speaker groups

Modifying a Pre-Existing Speaker Group

Scenario #4: A target Accused Google Player ("Kitchen") that is operating in standalone mode and is not engaging in active playback is added to a pre-existing speaker group ("Morning") of Accused Google Players ("Attic speaker" and "Den speaker") at a time when (i) the pre-existing speaker group is launched such that each Accused Google Player in the pre-existing speaker group is operating in a grouped mode in which the Accused Google Player is configured to play back audio as part of the pre-existing speaker group and (ii) the Accused Google Players in the pre-existing speaker group are synchronously engaging in active playback with one another (playing "Bang Bang").



6:30

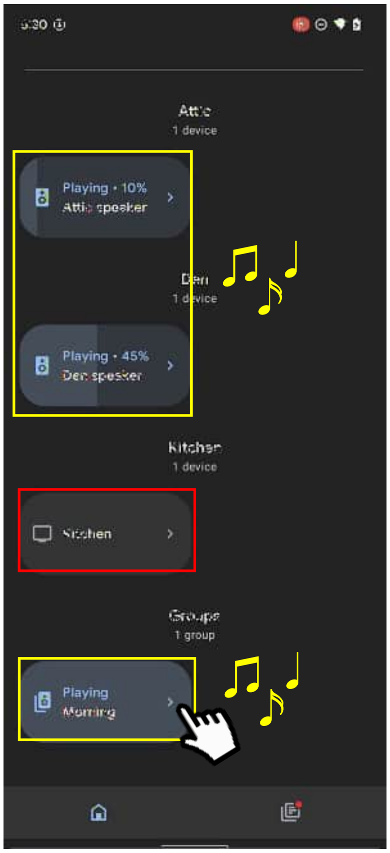
Media

Bang Bang
ina Grande, Nicki Minaj, & Jessie J
YouTube Music

Attic speaker ✓
Den speaker ✓
Kitchen ○
Morning ○
Stop

Manage your system

Music
Video
Podcasts
Radio
Speaker groups



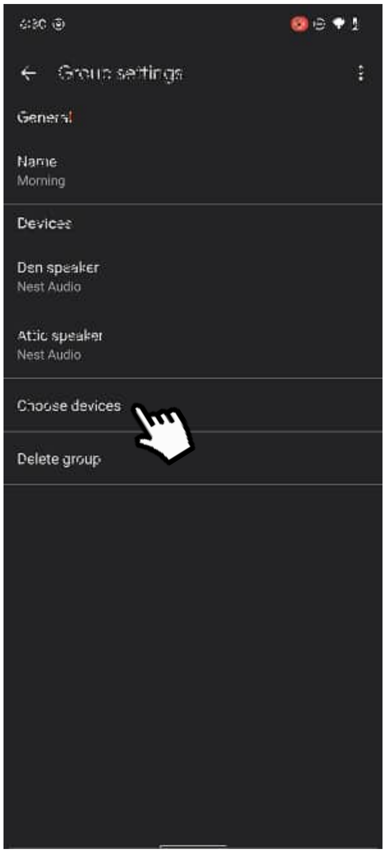
6:30

Attic
1 device
Playing • 10%
Attic speaker

Den
1 device
Playing • 45%
Den speaker

Kitchen
1 device
Kitchen

Groups
1 group
Playing
Morning



6:30

Group settings

General

Name
Morning

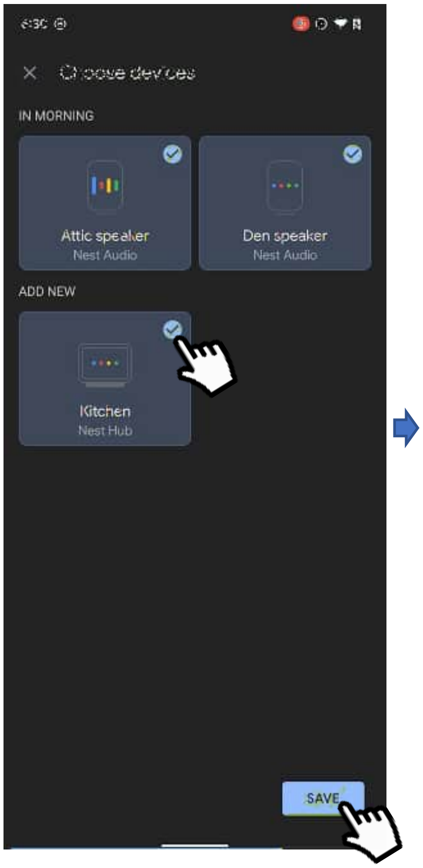
Devices

Den speaker
Nest Audio

Attic speaker
Nest Audio

Choose devices

Delete group



6:30

Choose devices

IN MORNING

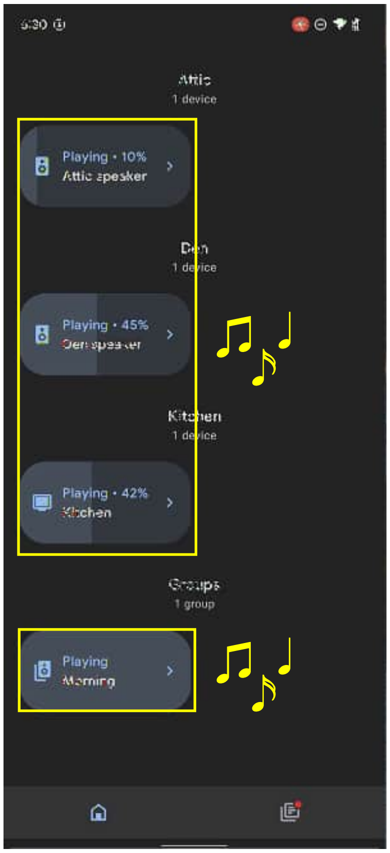
Attic speaker
Nest Audio

Den speaker
Nest Audio

ADD NEW

Kitchen
Nest Hub

SAVE



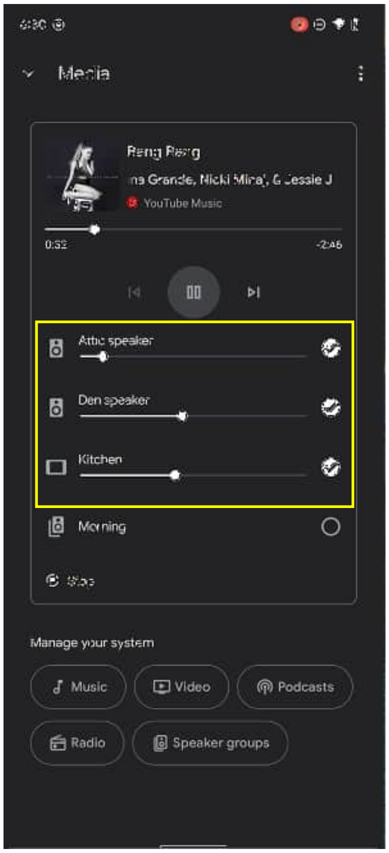
6:30

Attic
1 device
Playing • 10%
Attic speaker

Den
1 device
Playing • 45%
Den speaker

Kitchen
1 device
Playing • 42%
Kitchen

Groups
1 group
Playing
Morning



6:30

Media

Bang Bang
ina Grande, Nicki Minaj, & Jessie J
YouTube Music
0:52 -2:46

Attic speaker ✓
Den speaker ✓
Kitchen ✓
Morning ○
Stop

Manage your system

Music
Video
Podcasts
Radio
Speaker groups

EXHIBIT A - FILED UNDER SEAL

Case No. 3:20-cv-06754-WHA
Related to Case No. 3:21-cv-07559-WHA

Sonos v. Google

Dr. Kevin Almeroth - Rebuttal

January 13, 2023

Qualifications

Academic Appointments

Professor, Dept. of Computer Science
UC Santa Barbara (1997-2020)

Vice Chair, Dept. of Computer Science
UC Santa Barbara (2001-2005)

Associate Dean, College of Engineering
UC Santa Barbara (2007-2009)

Education

Georgia Institute of Technology

Ph.D. Computer Science	*1997*
M.S. Computer Science	*1994*
B.S. Computer Science	*1992*

Research Experience

25+ years of experience as a computer networking researcher

Approximately 200 peer-reviewed publications

19 released software systems

Qualifications

Relevant Experience

UCSB

Research themes include:

- Streaming media in the Internet
- Delivery of multimedia content between computing devices
- Wireless networking

IETF

Active in Internet Engineering Task Force (IETF) for 20+ years:

- Developed standards to support multimedia data delivery
- Developed standards to support network monitoring & management

Industry Collaborations

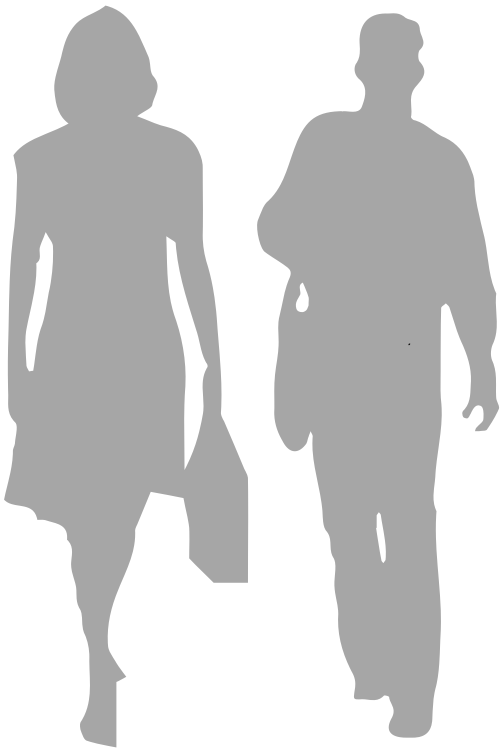
HITACHI
OCCAM NETWORKS
IBM
hp
intel
DF Digital Fountain
real
LOCKHEED MARTIN
U.S. AIR FORCE
S:L
Redback NETWORKS
JUNIPer NETWORKS
CISCO

Awards & Honors

- **Numerous teaching awards**
- **Numerous honors and awards for original research**
- **Recognized as IEEE Fellow**

IEEE

Person of Ordinary Skill in the Art



- Bachelor’s Degree in Computer Science, Computer Engineering, Electrical Engineering, or the equivalent

+

- 2-4 years of work experience in the fields of networking and network-based systems or applications, such as consumer audio systems, or an equivalent level of skill, knowledge, and experience

EXHIBIT A - FILED UNDER SEAL

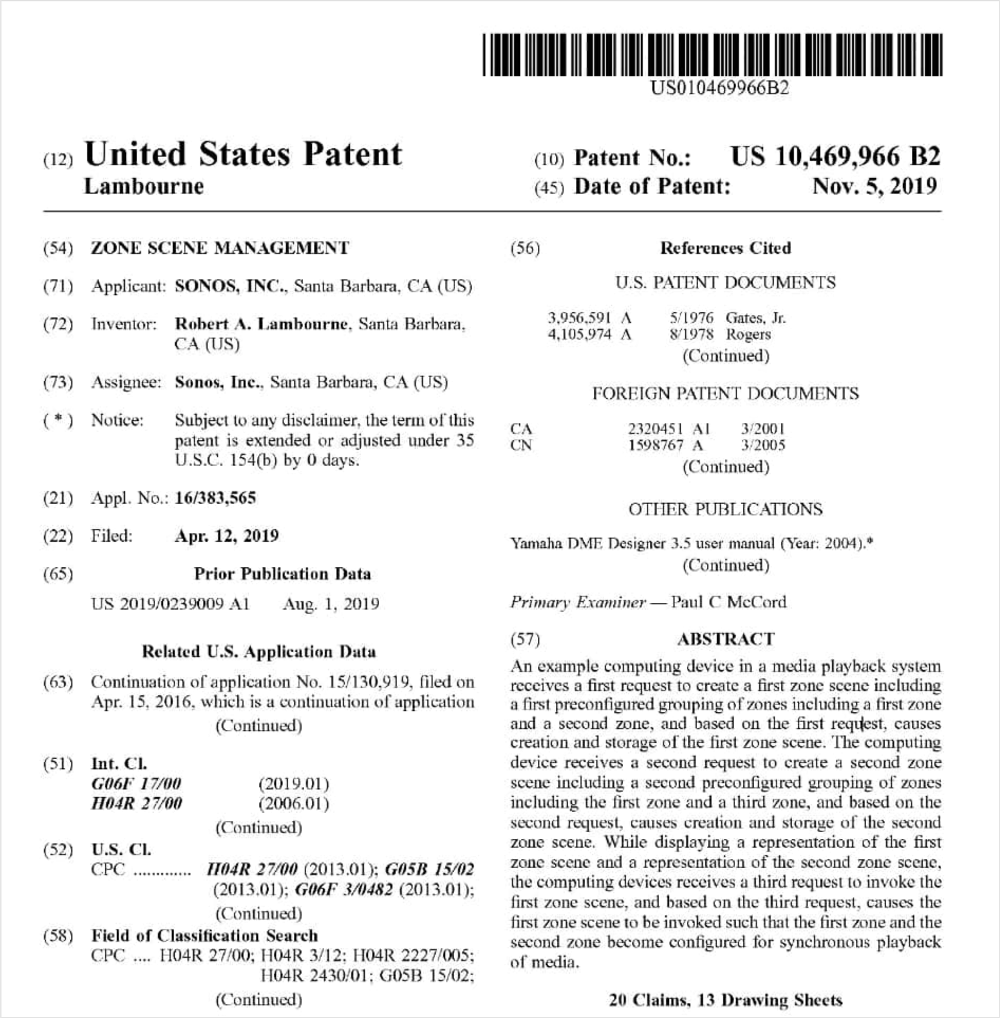
Parties' Proposed Claim Constructions for '966 Patent

Claim Term	Sonos	Google
"zone player"	Same as "playback device" "a data network device configured to process and output audio"	Same as "playback device" Plain and ordinary meaning, no construction necessary
"data network"	Plain and ordinary meaning, which is "a medium that interconnects devices, enabling them to send digital data packets to and receive digital data packets from each other"	Plain and ordinary meaning, no construction necessary
"zone scene"	"a previously-saved grouping of zone players that are to be configured for synchronous playback of media when the zone scene is invoked"	"a previously saved grouping of zone players according to a common theme"

Parties' Proposed Claim Constructions for '966 Patent

Claim Term	Sonos	Google
"zone player"	Same as "playback device" "a data network device configured to process and output audio"	Same as "playback device" Plain and ordinary meaning, no construction necessary
"zone scene"	"a previously-saved grouping of zone players that are to be configured for synchronous playback of media when the zone scene is invoked"	"a previously saved grouping of zone players according to a common theme"

Assignment – Validity of ’966 Patent



US010469966B2

(12) **United States Patent**
Lambourne

(10) **Patent No.: US 10,469,966 B2**
(45) **Date of Patent: Nov. 5, 2019**

(54) **ZONE SCENE MANAGEMENT**

(71) Applicant: **SONOS, INC.**, Santa Barbara, CA (US)

(72) Inventor: **Robert A. Lambourne**, Santa Barbara, CA (US)

(73) Assignee: **Sonos, Inc.**, Santa Barbara, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **16/383,565**

(22) Filed: **Apr. 12, 2019**

(65) **Prior Publication Data**

US 2019/0239009 A1 Aug. 1, 2019

Related U.S. Application Data

(63) Continuation of application No. 15/130,919, filed on Apr. 15, 2016, which is a continuation of application
(Continued)

(51) **Int. Cl.**
G06F 17/00 (2019.01)
H04R 27/00 (2006.01)
(Continued)

(52) **U.S. Cl.**
CPC ***H04R 27/00*** (2013.01); ***G05B 15/02*** (2013.01); ***G06F 3/0482*** (2013.01);
(Continued)

(58) **Field of Classification Search**
CPC H04R 27/00; H04R 3/12; H04R 2227/005; H04R 2430/01; G05B 15/02;
(Continued)

(56) **References Cited**

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(Continued)

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(Continued)

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Yamaha DME Designer 3.5 user manual (Year: 2004).*
(Continued)

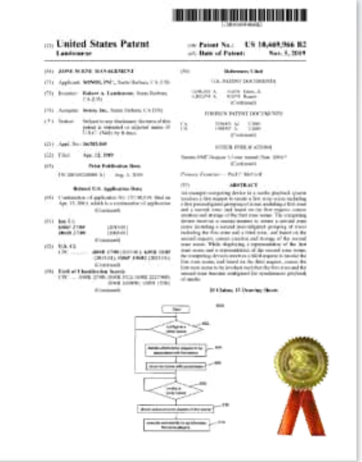
Primary Examiner — Paul C McCord

(57) **ABSTRACT**

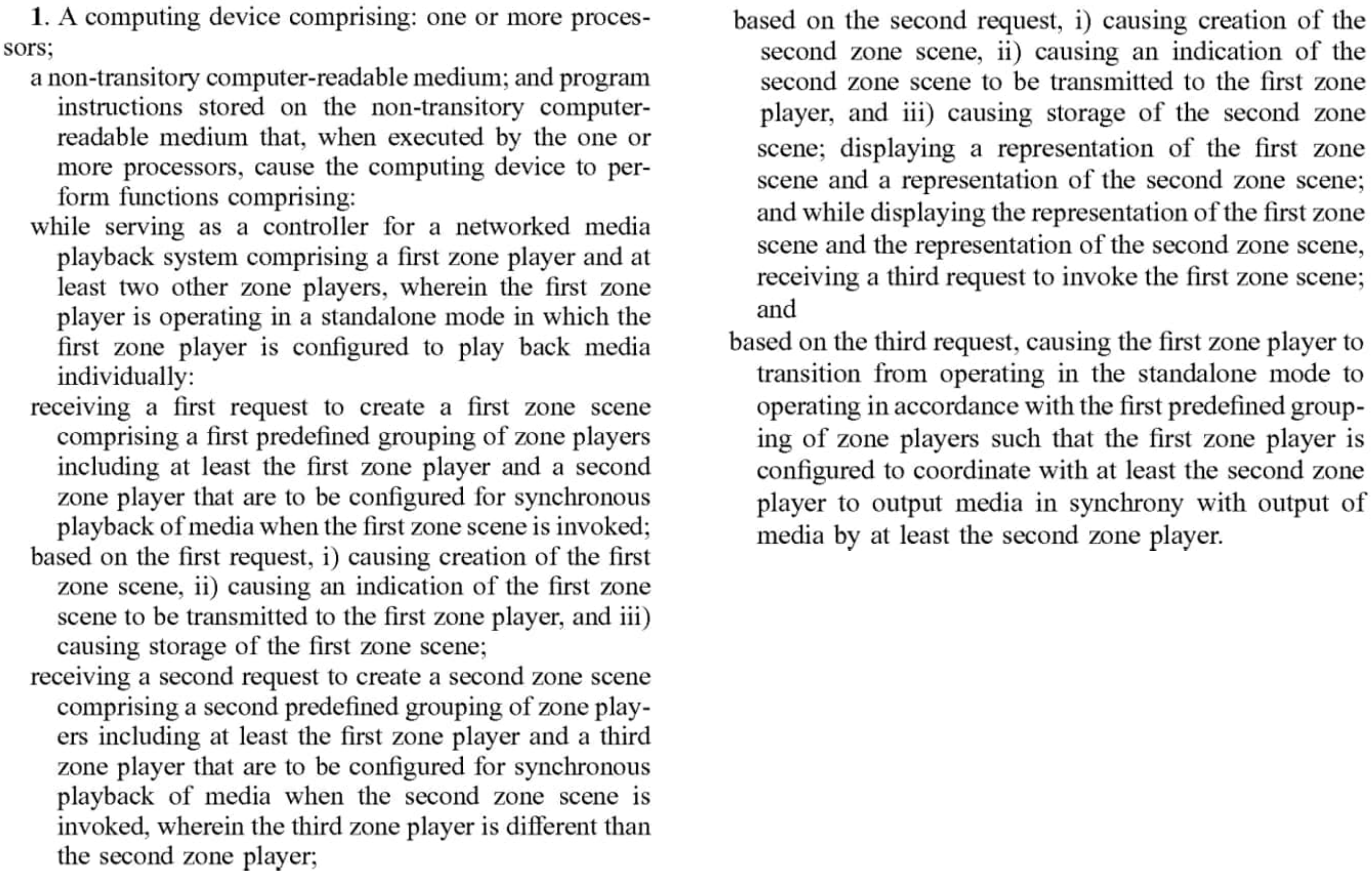
An example computing device in a media playback system receives a first request to create a first zone scene including a first preconfigured grouping of zones including a first zone and a second zone, and based on the first request, causes creation and storage of the first zone scene. The computing device receives a second request to create a second zone scene including a second preconfigured grouping of zones including the first zone and a third zone, and based on the second request, causes creation and storage of the second zone scene. While displaying a representation of the first zone scene and a representation of the second zone scene, the computing devices receives a third request to invoke the first zone scene, and based on the third request, causes the first zone scene to be invoked such that the first zone and the second zone become configured for synchronous playback of media.

20 Claims, 13 Drawing Sheets

Claim 1 of the ’966 Patent



US 10,469,966



1. A computing device comprising: one or more processors;

a non-transitory computer-readable medium; and program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene; displaying a representation of the first zone scene and a representation of the second zone scene; and while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

“Zone Scene” Grouping

[1.0] A computing device comprising:

…

[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;

Setup

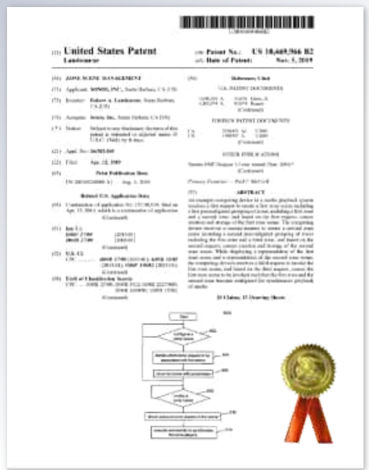
[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and

[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

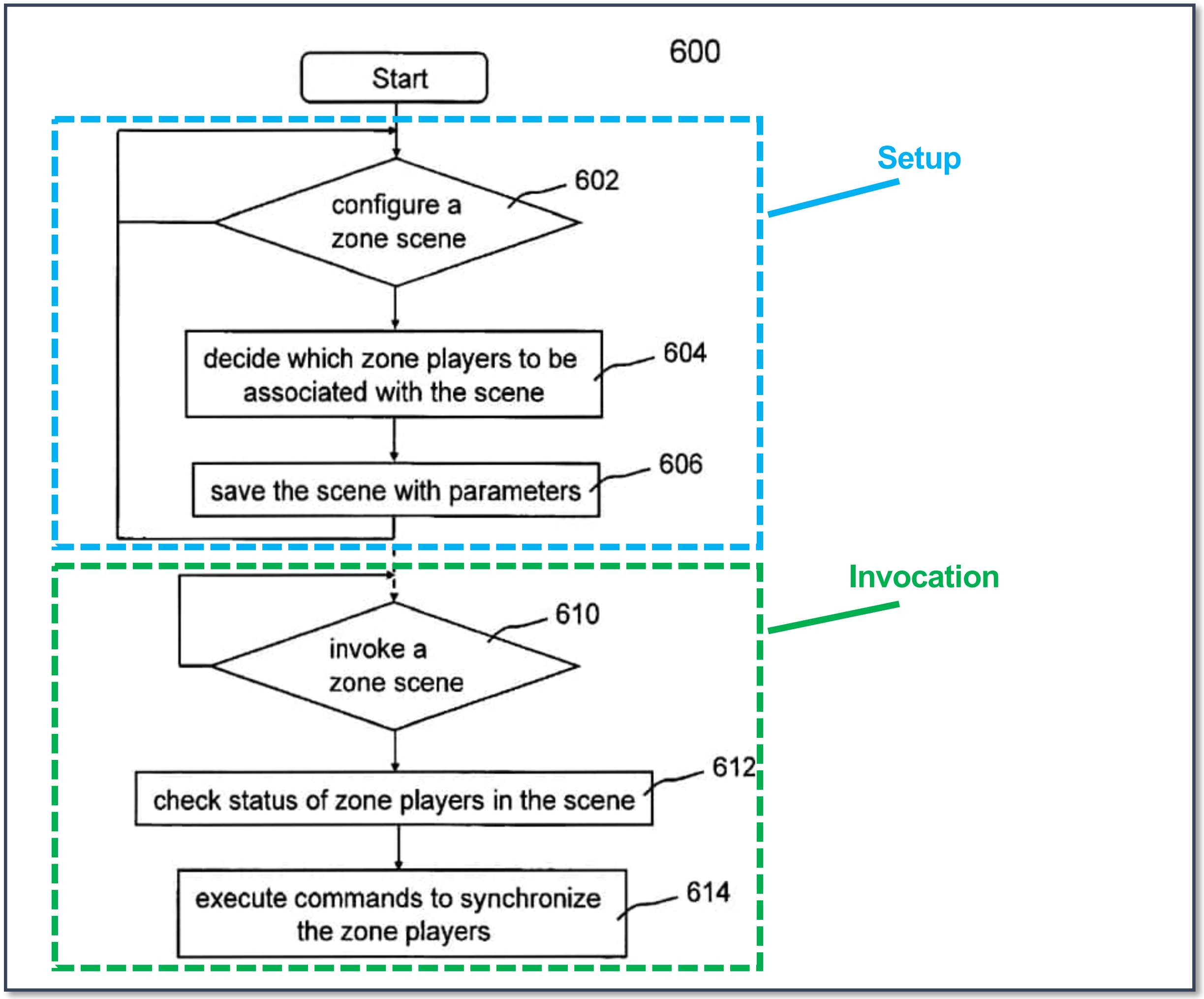
[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Invocation

“Zone Scene” Grouping



US 10,469,966


600
Start
Setup
configure a zone scene
602
decide which zone players to be associated with the scene
604
save the scene with parameters
606
Invocation
invoke a zone scene
610
check status of zone players in the scene
612
execute commands to synchronize the zone players
614

Assignment – Validity of ’966 Patent

Asserted Claims	Prior art products	Invalid?
Claims 1, 2, 4, 6, 8, 9, 10, 12, 14, and 16 of US 10,469,966 (’966 Patent)		?
		?
		?

Assignment – Validity of ’966 Patent

Asserted Claims	Prior art products	Invalid?
Claims 1, 2, 4, 6, 8, 9, 10, 12, 14, and 16 of US 10,469,966 (’966 Patent)		✗
		✗
		✗

2005 Sonos System

Asserted Claim	Invalid?
’966 Patent Claim 1	✗
’966 Patent Claim 2	✗
’966 Patent Claim 4	✗
’966 Patent Claim 6	✗
’966 Patent Claim 8	✗
’966 Patent Claim 9	✗
’966 Patent Claim 10	✗
’966 Patent Claim 12	✗
’966 Patent Claim 14	✗
’966 Patent Claim 16	✗

Squeezebox

Asserted Claim	Invalid?
’966 Patent Claim 1	✗
’966 Patent Claim 2	✗
’966 Patent Claim 4	✗
’966 Patent Claim 6	✗
’966 Patent Claim 8	✗
’966 Patent Claim 9	✗
’966 Patent Claim 10	✗
’966 Patent Claim 12	✗
’966 Patent Claim 14	✗
’966 Patent Claim 16	✗

2005 Sonos System

Asserted Claim	Invalid?
’966 Patent Claim 1	✗
’966 Patent Claim 2	✗
’966 Patent Claim 4	✗
’966 Patent Claim 6	✗
’966 Patent Claim 8	✗
’966 Patent Claim 9	✗
’966 Patent Claim 10	✗
’966 Patent Claim 12	✗
’966 Patent Claim 14	✗
’966 Patent Claim 16	✗

The “Bose Lifestyle” System

Bose Lifestyle 50

+

Bose SA2 / SA3 Amplifiers

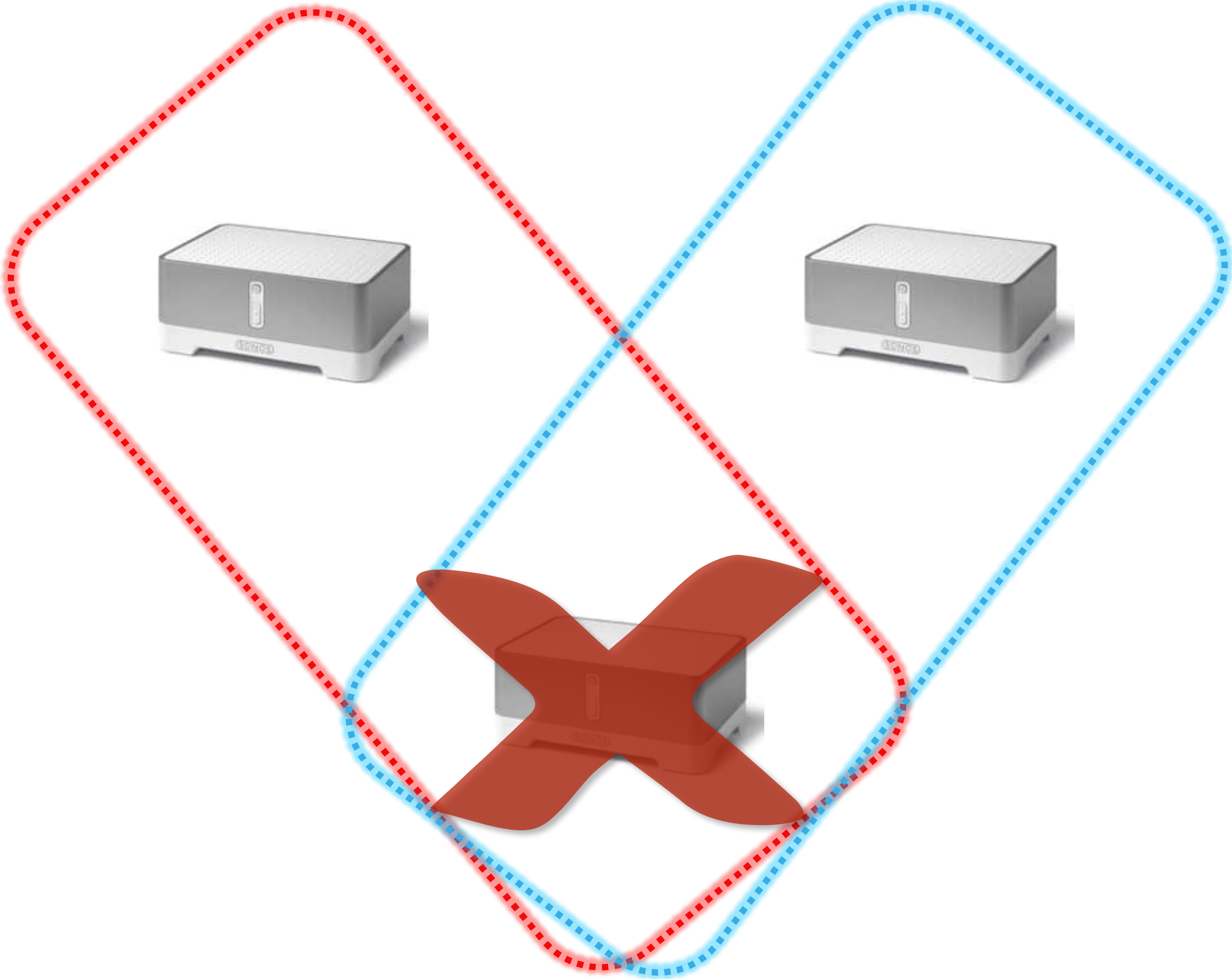
+

Bose FreeSpace

+

Bose®link
Music Throughout
Your Home

2005 Sonos System - No Overlapping Zone Scenes



Squeezebox - No Overlapping Zone Scenes

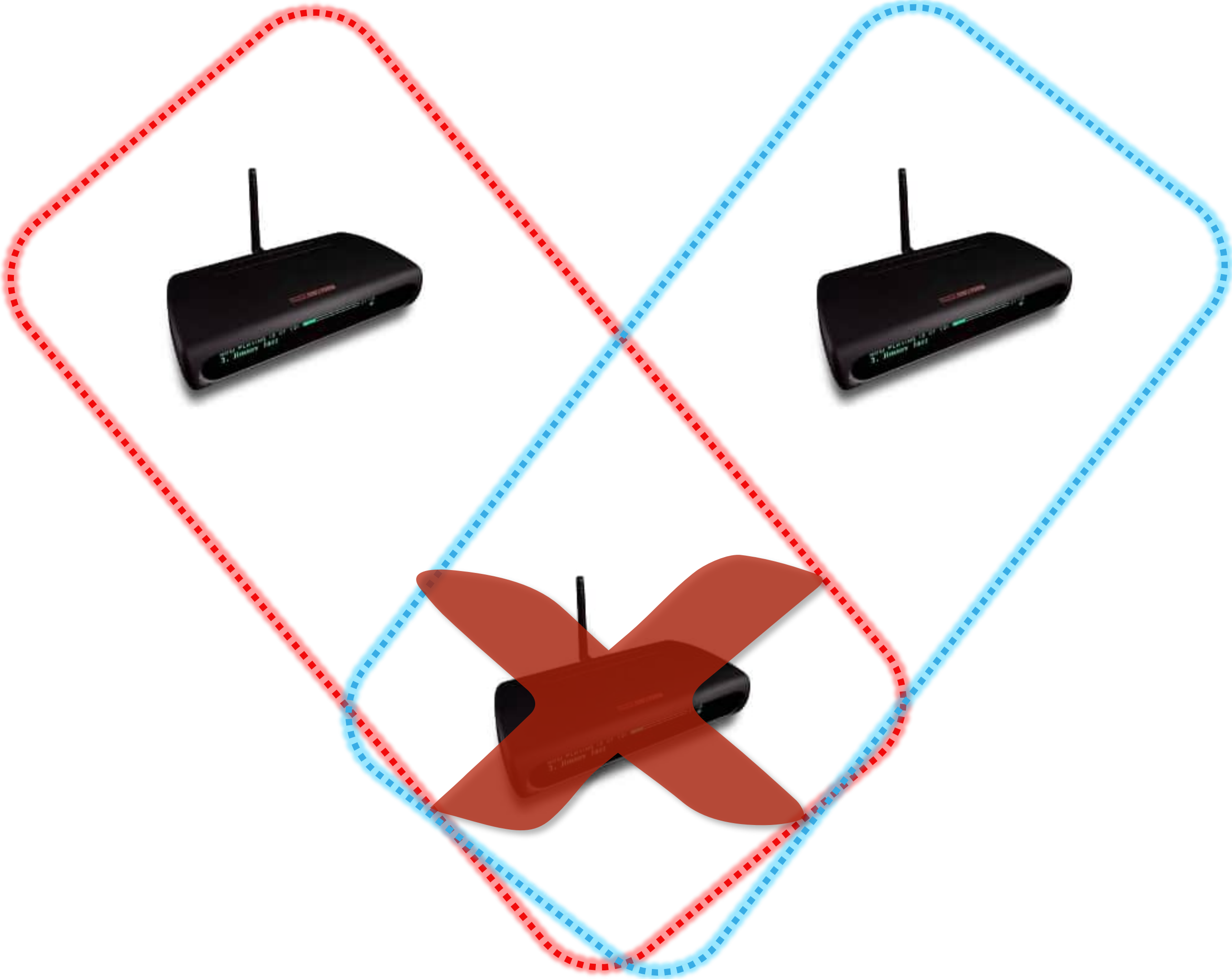


EXHIBIT A - FILED UNDER SEAL

Bose Lifestyle - No Overlapping Zone Scenes

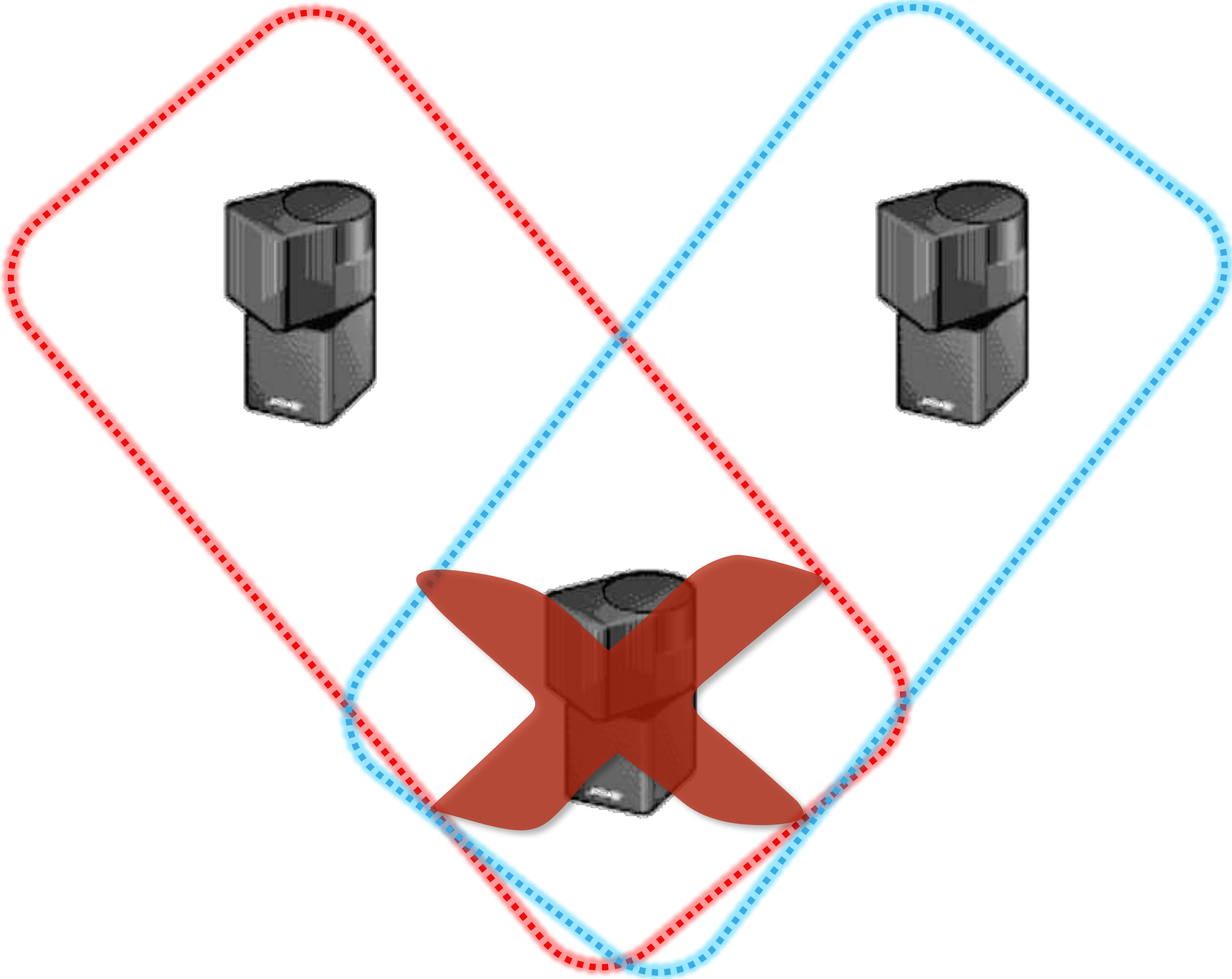
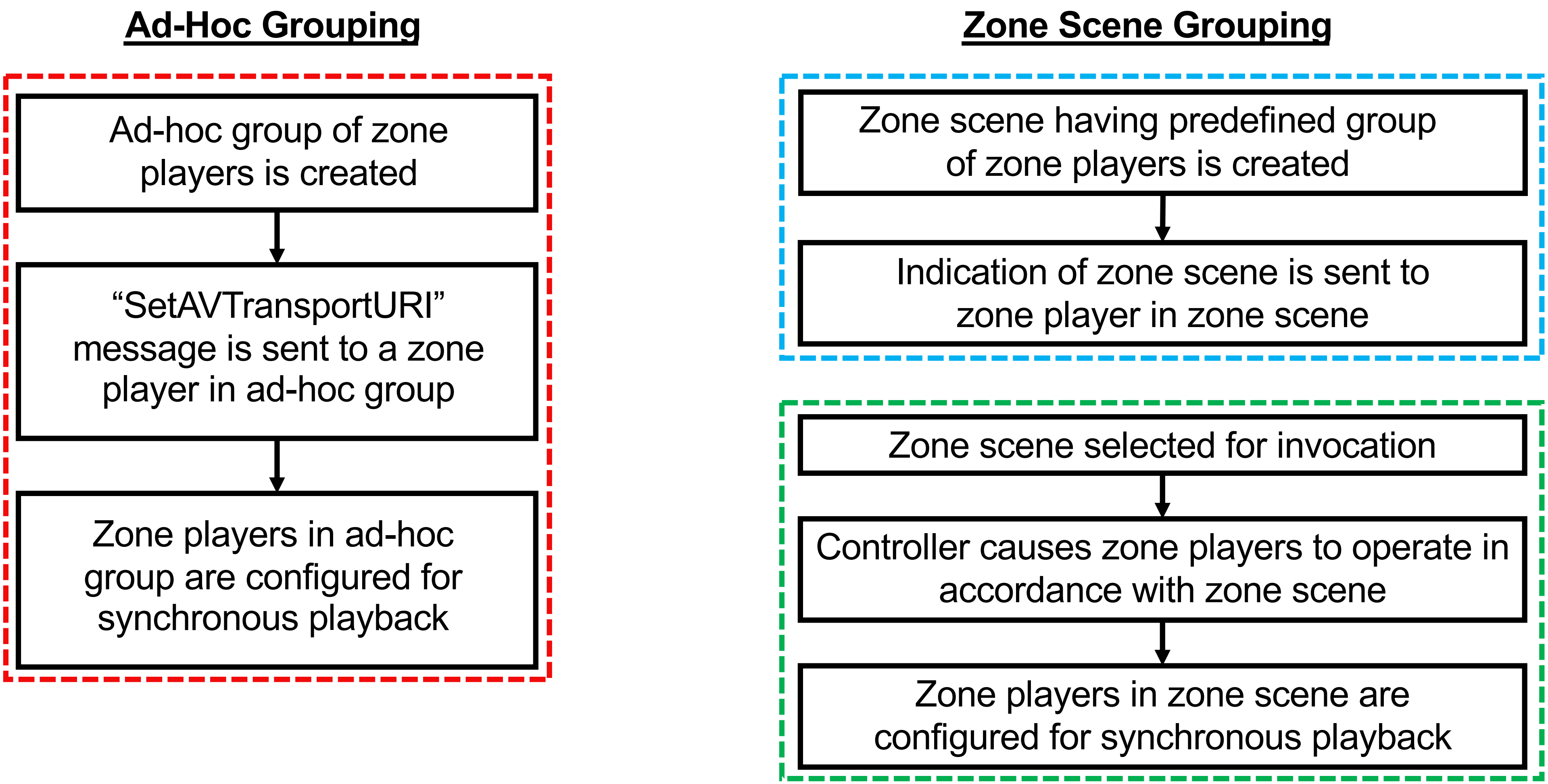


EXHIBIT A - FILED UNDER SEAL

Sonos's 2005 Ad-Hoc Grouping ≠ Sonos's Zone Scene Grouping



Ad-Hoc Grouping

Ad-hoc group of zone players is created

"SetAVTransportURI" message is sent to a zone player in ad-hoc group

Zone players in ad-hoc group are configured for synchronous playback

Zone Scene Grouping

Zone scene having predefined group of zone players is created

Indication of zone scene is sent to zone player in zone scene

Zone scene selected for invocation

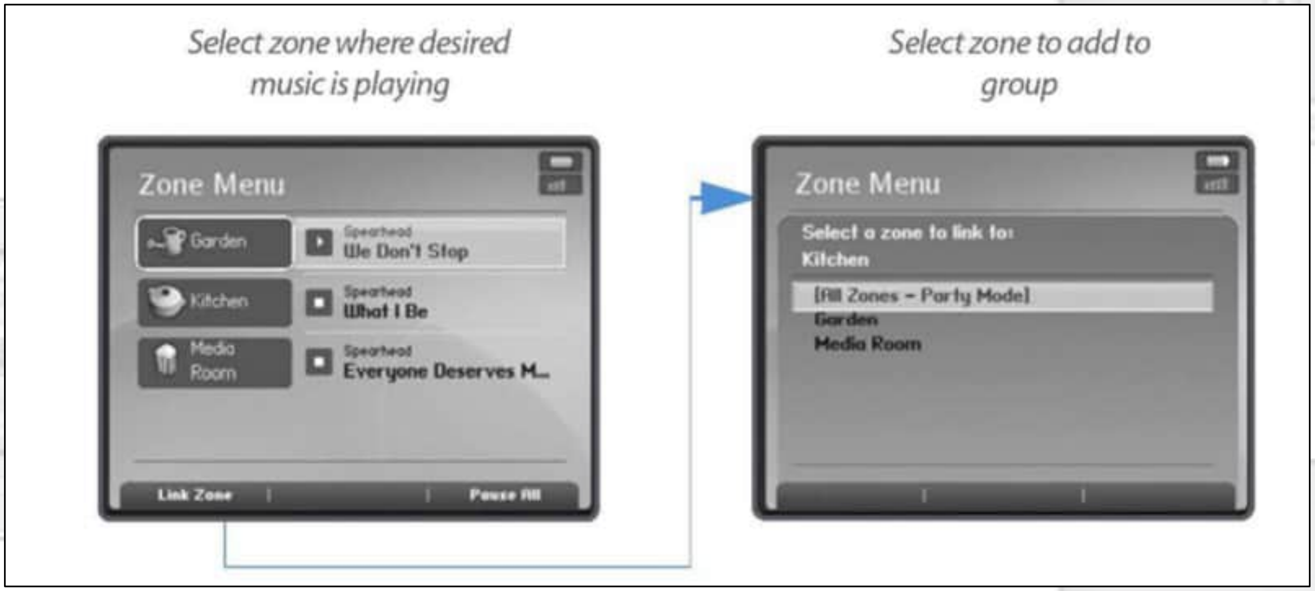
Controller causes zone players to operate in accordance with zone scene

Zone players in zone scene are configured for synchronous playback

Sonos's 2005 Ad-Hoc Grouping

SONOS
Now Playing

Sonos's 2005 Ad-Hoc Grouping

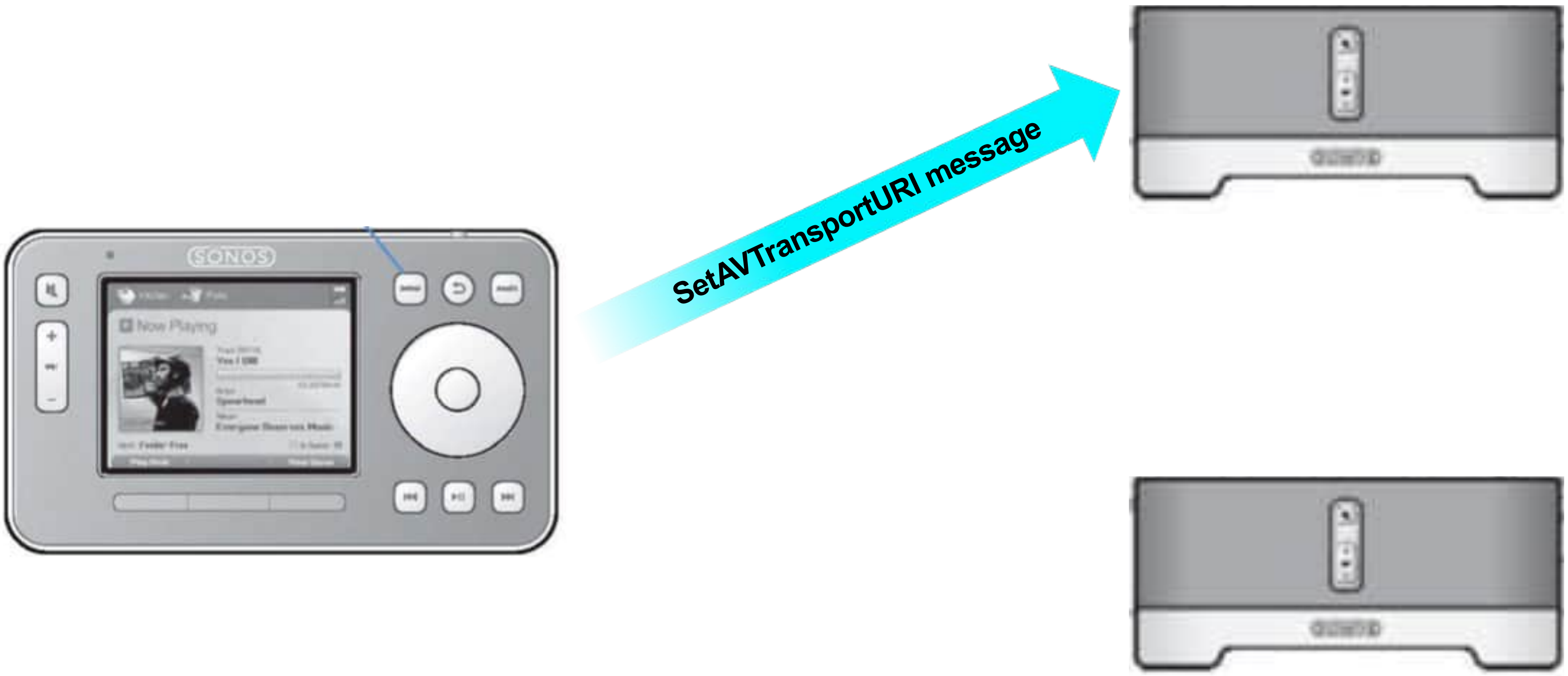


Select zone where desired music is playing

Select zone to add to group

Zone Menu
Garden
Spearhead
We Don't Stop
Kitchen
Spearhead
What I Be
Media Room
Spearhead
Everyone Deserves M...
Link Zone
Pause All
Zone Menu
Select a zone to link to:
Kitchen
[All Zones – Party Mode]
Garden
Media Room

Sonos's 2005 Ad-Hoc Grouping


SONOS
Now Playing
SetAVTransportURI message

Sonos's 2005 Ad-Hoc Grouping

SONOS
Now Playing

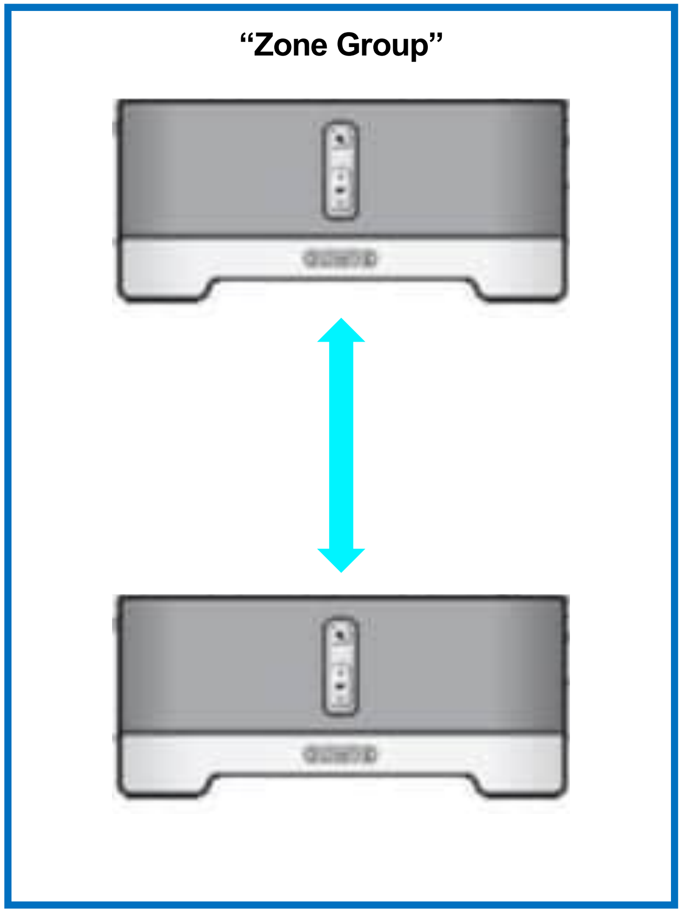
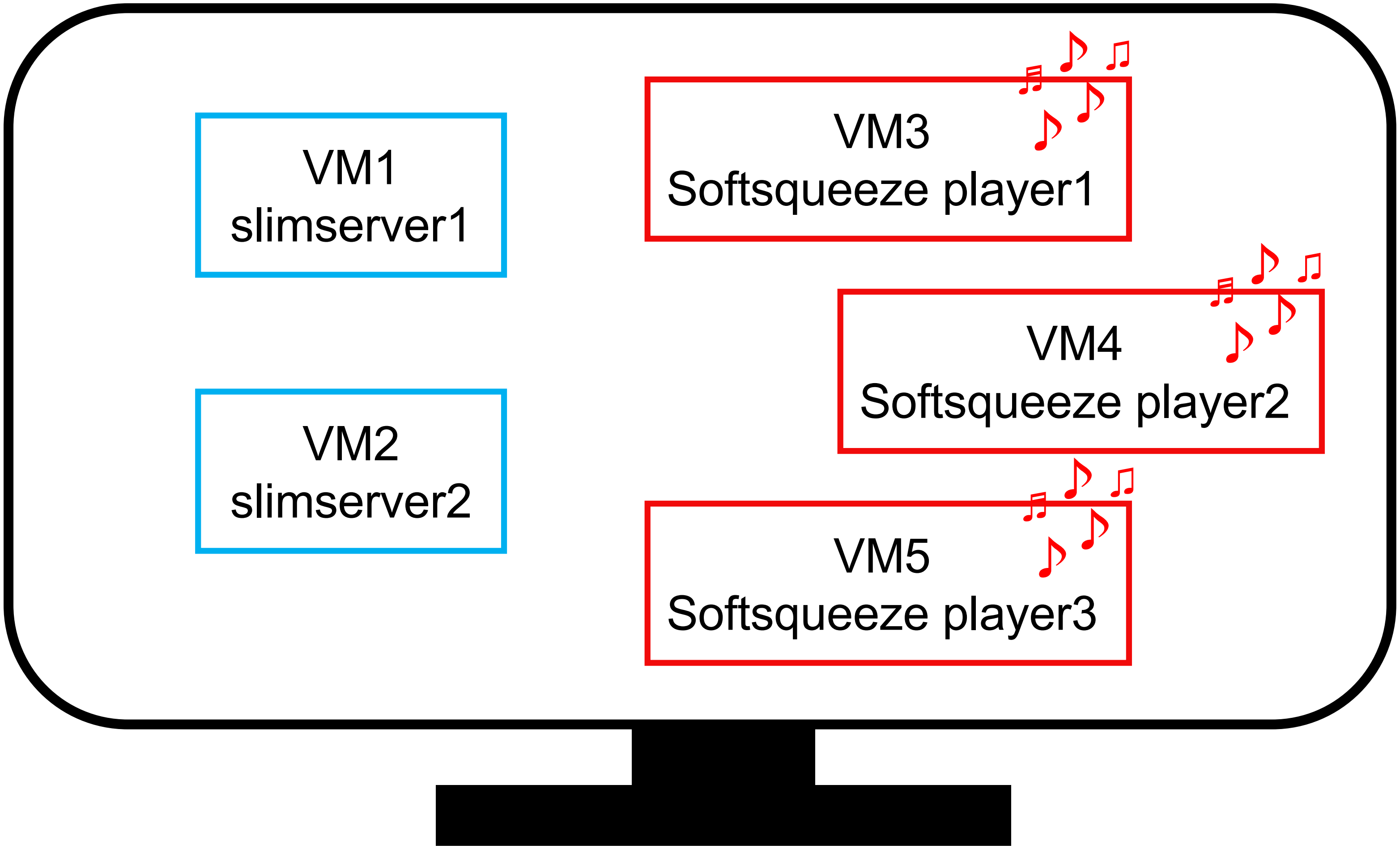


EXHIBIT A - FILED UNDER SEAL

Squeezebox - Dr. Schonfeld’s Linux-Based Test System



VM1
slimserver1

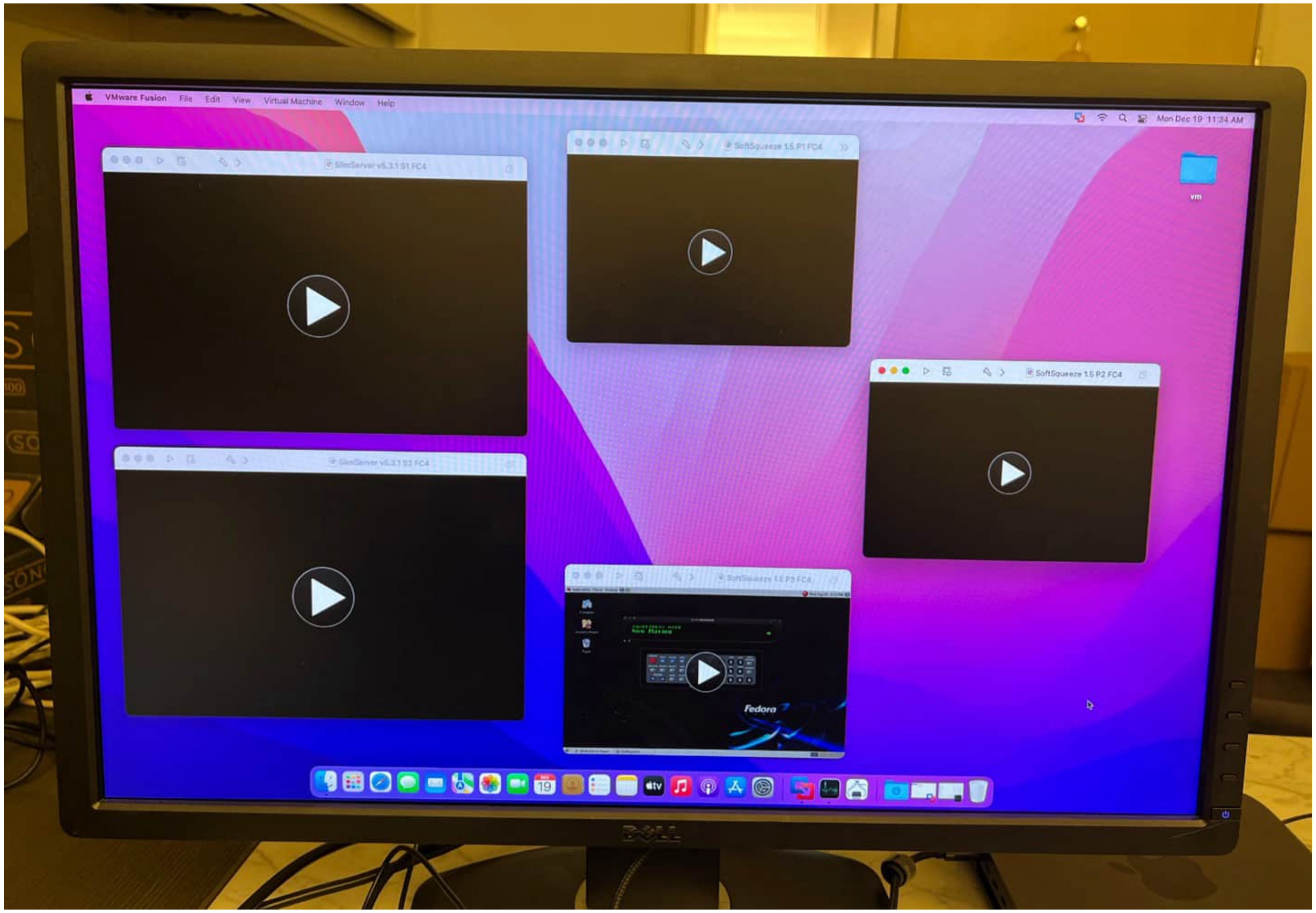
VM2
slimserver2

VM3
Softsqueeze player1

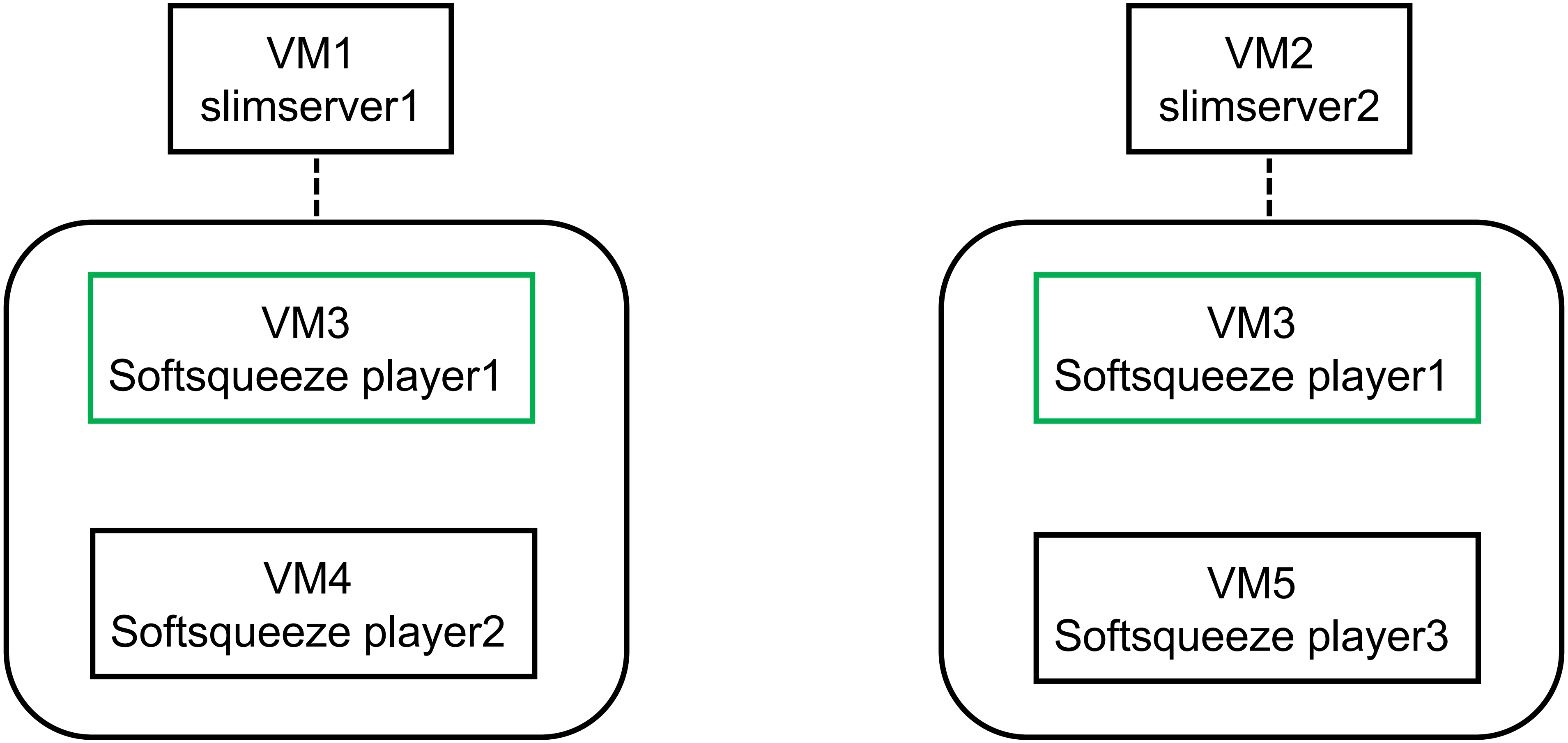
VM4
Softsqueeze player2

VM5
Softsqueeze player3

Squeezebox - Dr. Schonfeld's Linux-Based Test System


VMware Fusion
File
Edit
View
Virtual Machine
Window
Help
Mon Dec 19 11:34 AM
SlimServer v6.3.1 S1 FC4
SoftSqueeze 1.5 P1 FC4
vm
SoftSqueeze 1.5 P2 FC4
SlimServer v6.3.1 S2 FC4
SoftSqueeze 1.5 P3 FC4
Fedora
DELL

Squeezebox - Dr. Schonfeld's Alleged Overlapping "Sync Groups"



VM1
slimserver1

VM3
Softsqueeze player1

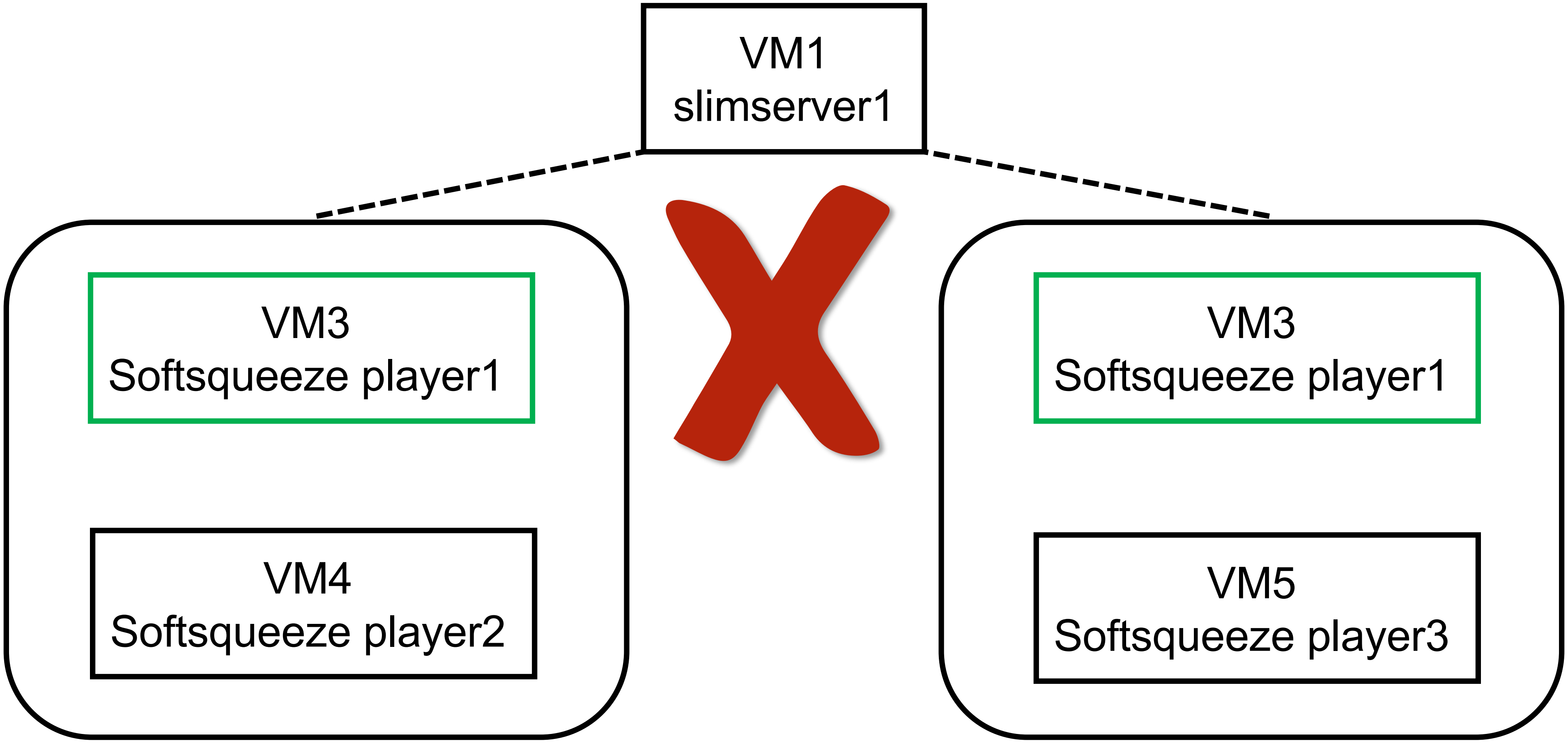
VM4
Softsqueeze player2

VM2
slimserver2

VM3
Softsqueeze player1

VM5
Softsqueeze player3

Squeezebox – Can't Have Overlapping "Sync Groups"



VM1
slimserver1

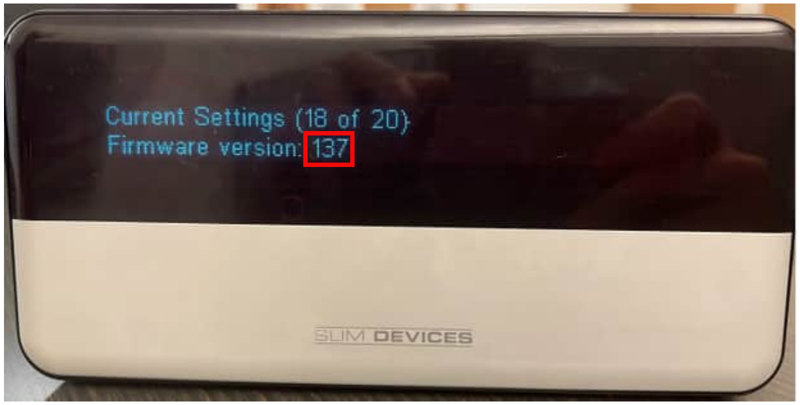
VM3
Softsqueeze player1

VM4
Softsqueeze player2

VM3
Softsqueeze player1

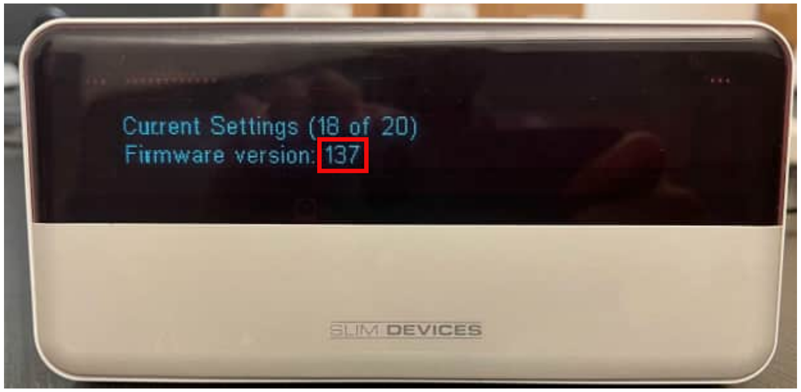
VM5
Softsqueeze player3

Dr. Schonfeld's Squeezebox V3 Players are Not Prior Art



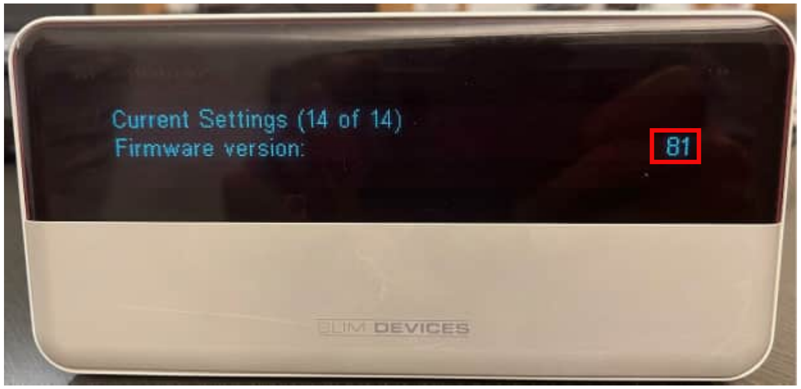
Current Settings (18 of 20)
Firmware version: 137

SLIM DEVICES



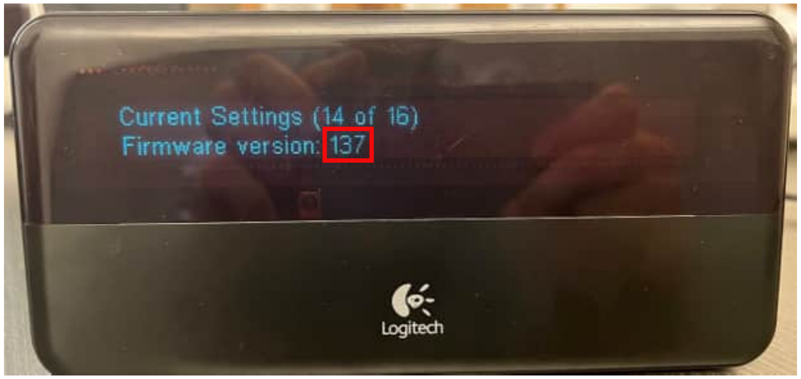
Current Settings (18 of 20)
Firmware version: 137

SLIM DEVICES



Current Settings (14 of 14)
Firmware version: 81

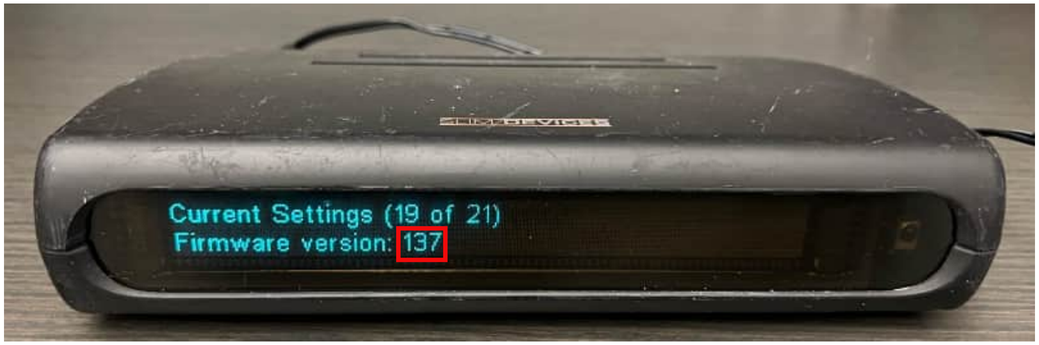
SLIM DEVICES



Current Settings (14 of 16)
Firmware version: 137

Dr. Schonfeld's Squeezebox V2 Player is Not Prior Art

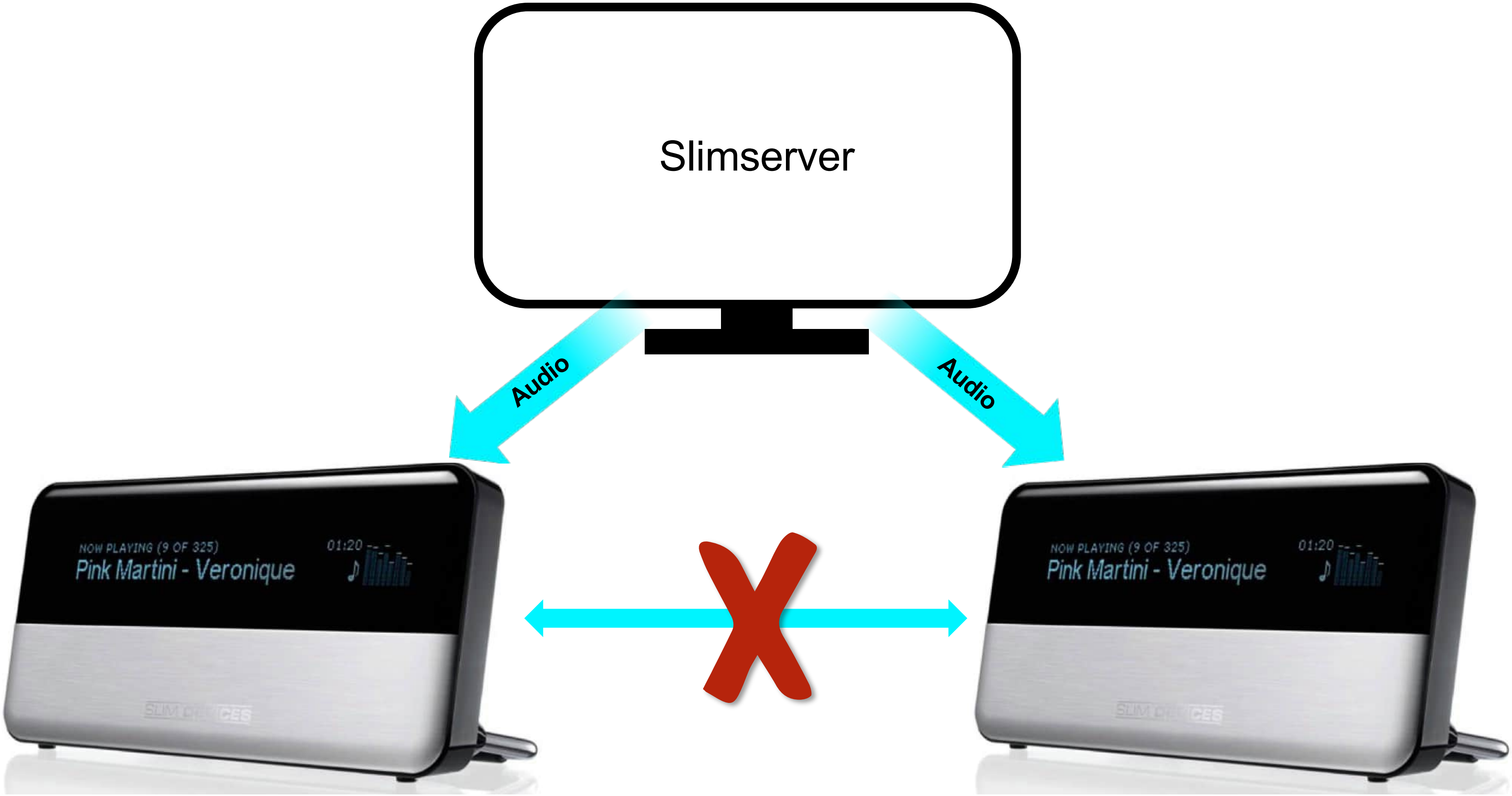
Squeezebox



Current Settings (19 of 21)
Firmware version: 137

EXHIBIT A - FILED UNDER SEAL

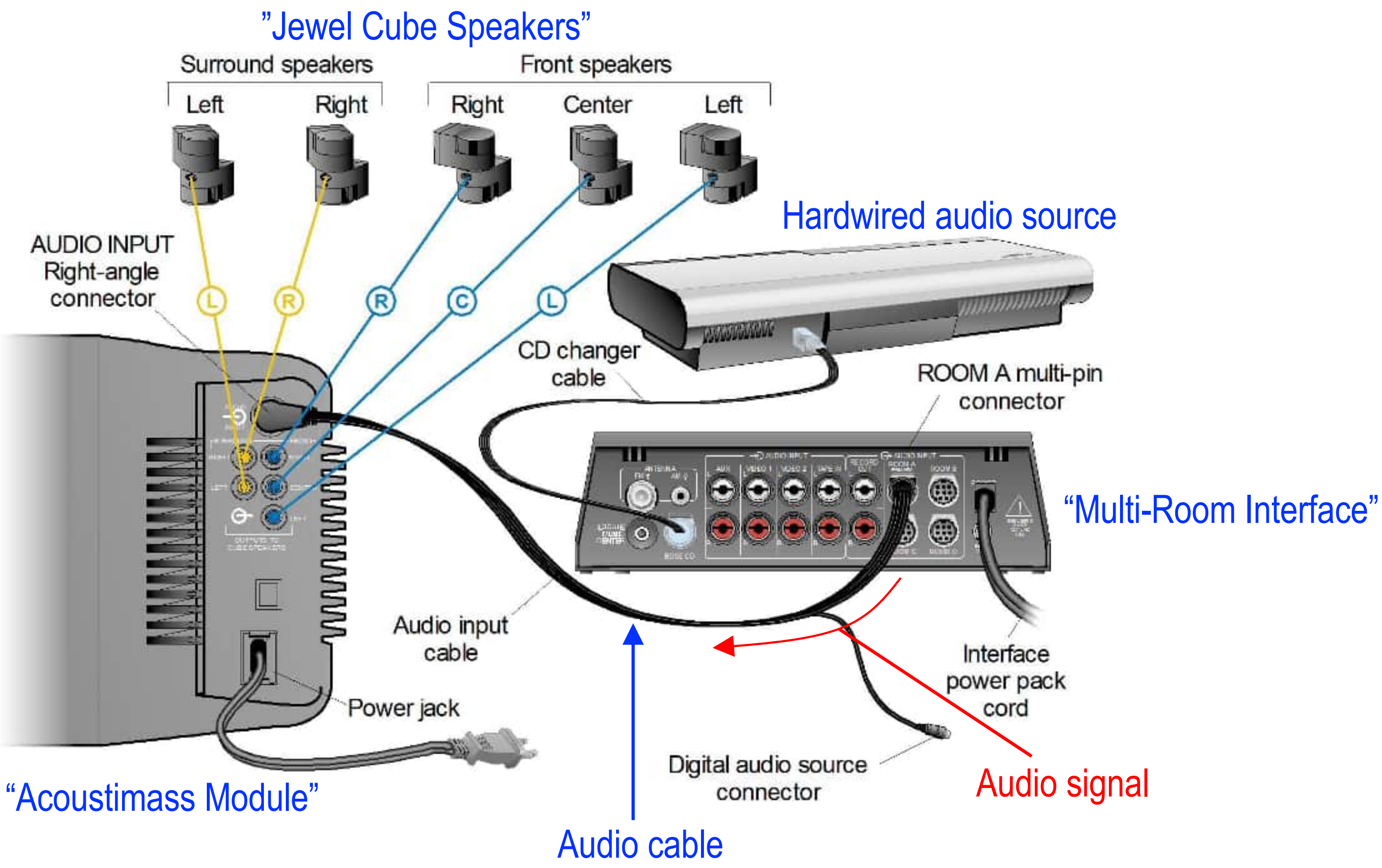
Squeezebox Players Do Not "Coordinate" for Synchronous Playback


Slimserver
Audio
Audio
NOW PLAYING (9 OF 325)
Pink Martini - Veronique
01:20
NOW PLAYING (9 OF 325)
Pink Martini - Veronique
01:20

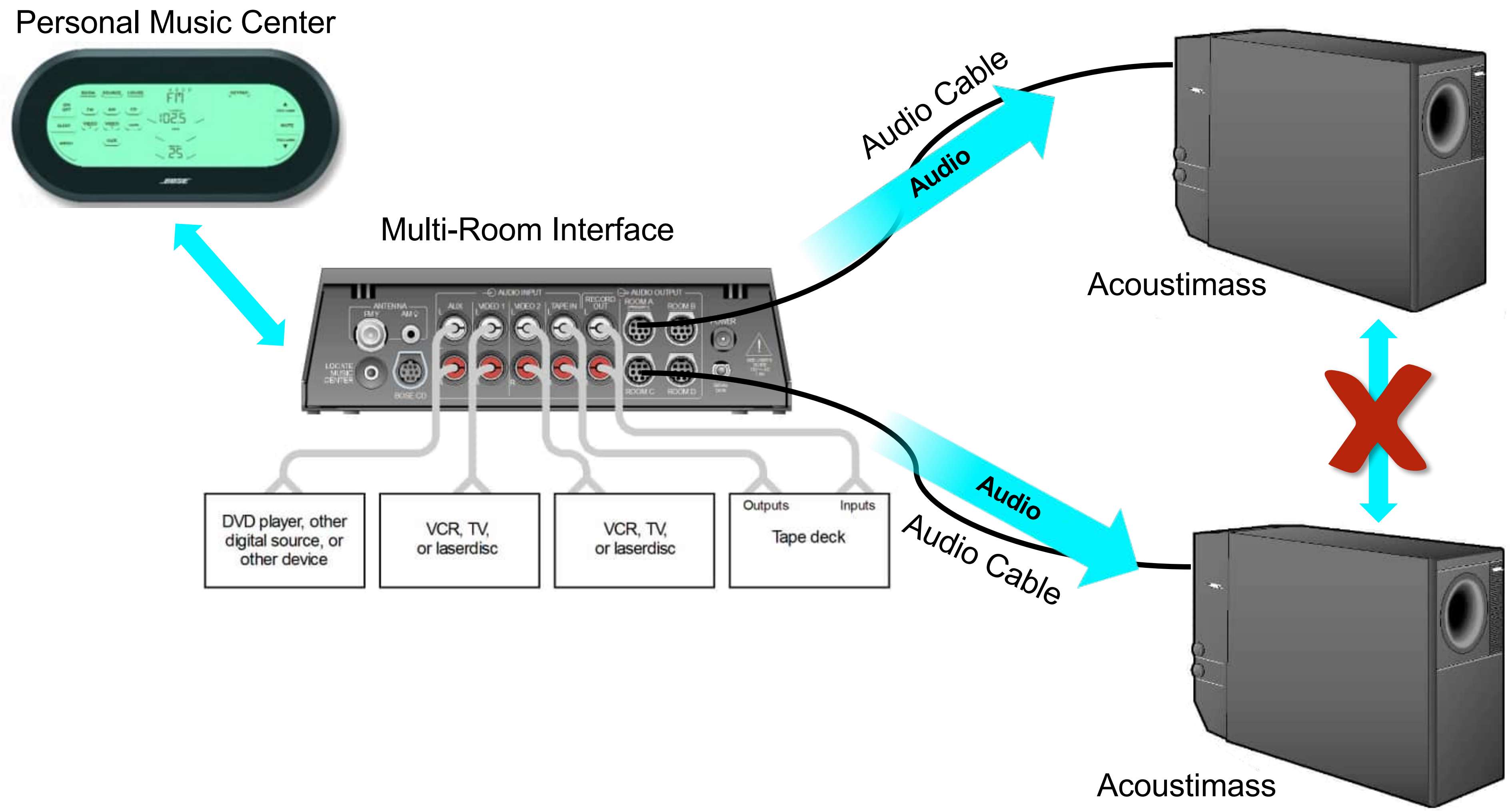
Bose Lifestyle 50 System

FM
1025
25
BOSE

“Personal Music Center”


”Jewel Cube Speakers”
Surround speakers
Front speakers
Left
Right
Right
Center
Left
Hardwired audio source
AUDIO INPUT Right-angle connector
L
R
R
C
L
CD changer cable
ROOM A multi-pin connector
“Multi-Room Interface”
Audio input cable
Interface power pack cord
Power jack
Digital audio source connector
Audio signal
“Acoustimass Module”
Audio cable

Bose Lifestyle Players Do Not “Coordinate” for Synchronous Playback



Personal Music Center

Multi-Room Interface

Audio Cable

Audio

Acoustimass

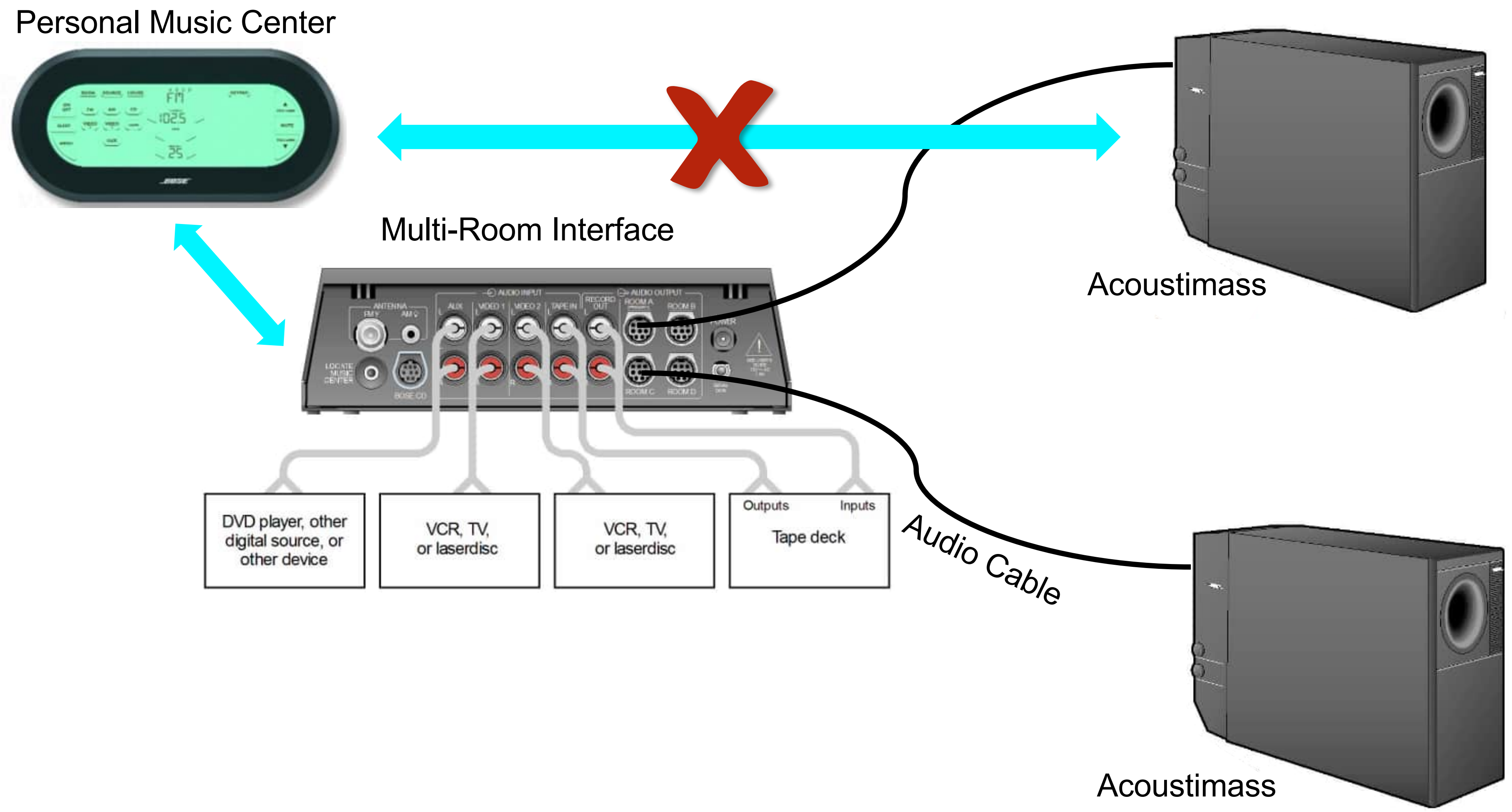
Audio

Audio Cable

Acoustimass

FM
102.5
25
BOSE
AUDIO INPUT
AUDIO OUTPUT
ANTENNA
FM
AM
AUX
VIDEO 1
VIDEO 2
TAPE IN
RECORD OUT
ROOM A
ROOM B
POWER
LOCATE MUSIC CENTER
BOSE CD
ROOM C
ROOM D
DVD player, other digital source, or other device
VCR, TV, or laserdisc
VCR, TV, or laserdisc
Outputs
Inputs
Tape deck

Personal Music Center Does Not Communicate with “Players”



Personal Music Center

Multi-Room Interface

Acoustimass

Audio Cable

Acoustimass

DVD player, other digital source, or other device

VCR, TV, or laserdisc

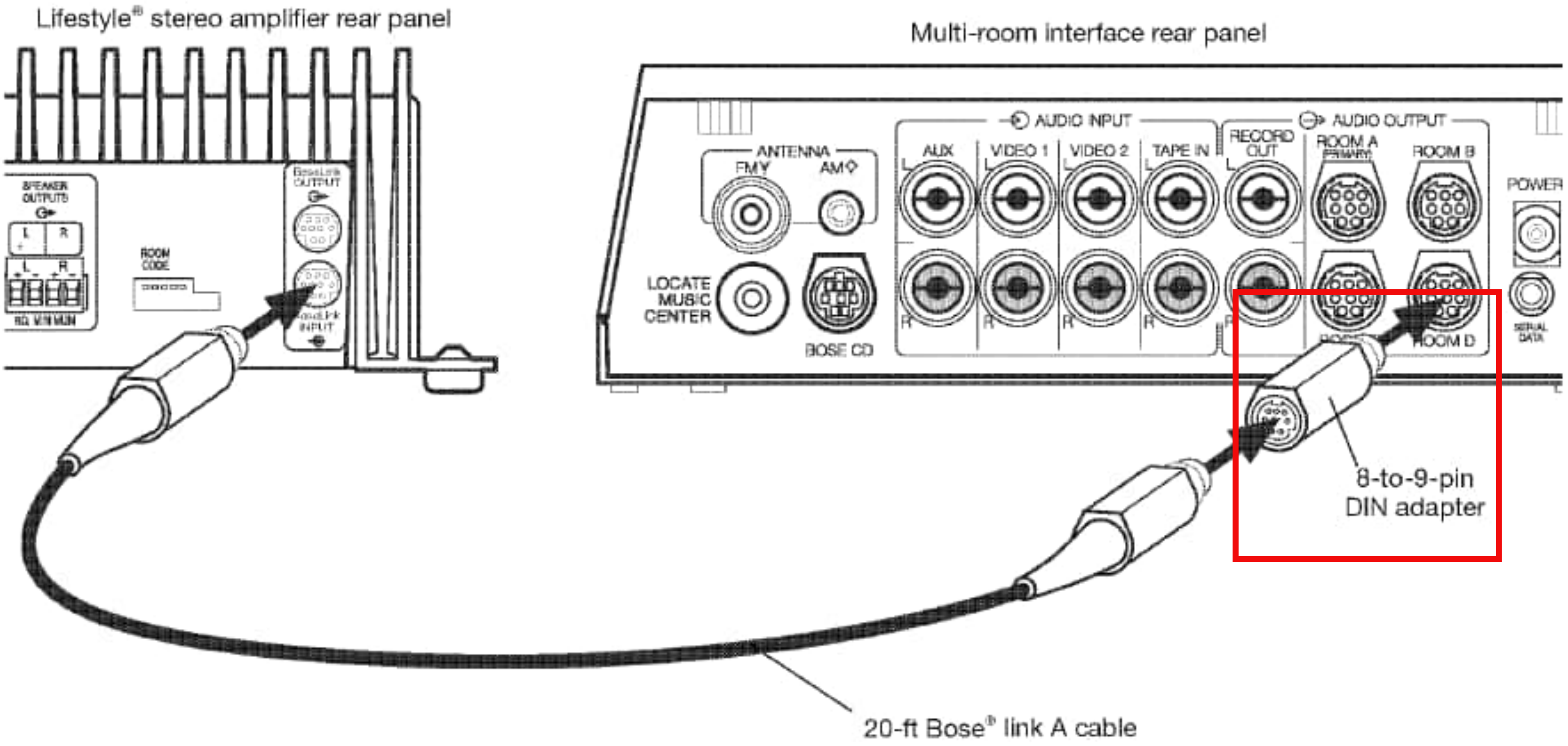
VCR, TV, or laserdisc

Outputs

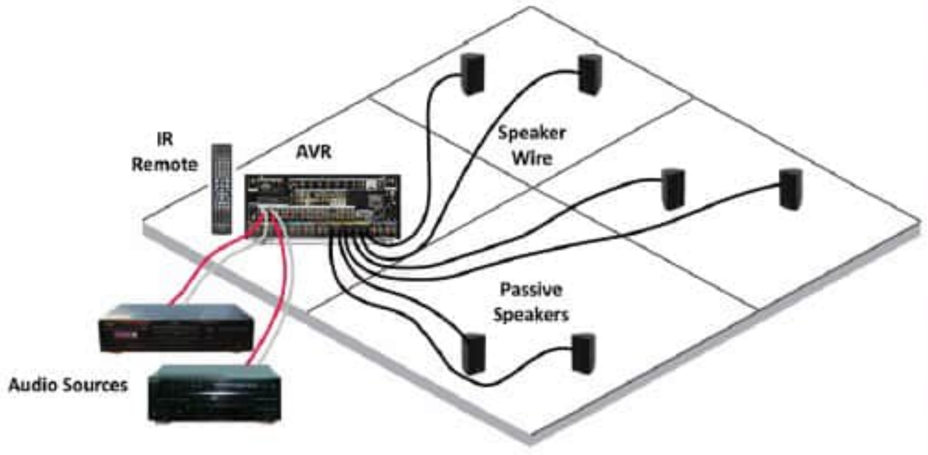
Inputs

Tape deck

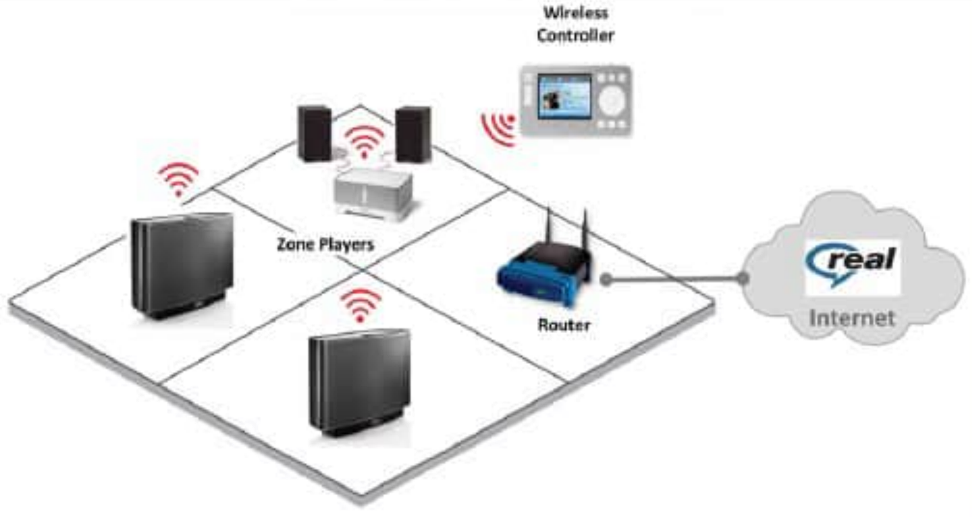
Bose Lifestyle 50 System Did Not Have Bose Link Capability


Lifestyle® stereo amplifier rear panel
SPEAKER OUTPUTS
L
R
ROOM CODE
BoseLink OUTPUT
BoseLink INPUT
Multi-room interface rear panel
ANTENNA
FM
AM
LOCATE MUSIC CENTER
BOSE CD
AUDIO INPUT
AUX
VIDEO 1
VIDEO 2
TAPE IN
RECORD OUT
AUDIO OUTPUT
ROOM A PRIMARY
ROOM B
ROOM D
POWER
SERIAL DATA
8-to-9-pin DIN adapter
20-ft Bose® link A cable

Conventional System vs. Sonos System


IR Remote
AVR
Speaker Wire
Passive Speakers
Audio Sources

Conventional System


Wireless Controller
Zone Players
Router
real
Internet

Sonos System

Validity of Claim 1 of the ’966 Patent – 2005 Sonos System

[1.0] A computing device comprising:

[1.1] one or more processors;

[1.2] a non-transitory computer-readable medium; and;

[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;

[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and

[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – 2005 Sonos System

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
	[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
	[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – 2005 Sonos System

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
	[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – 2005 Sonos System

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
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✗	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the '966 Patent – 2005 Sonos System

	[1.0] A computing device comprising:
	[1.1] one or more processors;
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	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – 2005 Sonos System

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
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✗	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[1.8]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – 2005 Sonos System

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[1.8]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✗	**[1.9]** displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – 2005 Sonos System

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✘	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✘	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✘	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✘	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✘	**[1.8]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✘	**[1.9]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✘	**[1.10]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – 2005 Sonos System

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[1.8]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✗	**[1.9]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✗	**[1.10]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
✗	**[1.11]** based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the '966 Patent – 2005 Sonos System

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[1.8]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✗	**[1.9]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✗	**[1.10]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
✗	**[1.11]** based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Squeezebox

[1.0] A computing device comprising:

[1.1] one or more processors;

[1.2] a non-transitory computer-readable medium; and;

[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;

[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and

[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Squeezebox

[1.0] A computing device comprising:

[1.1] one or more processors;

[1.2] a non-transitory computer-readable medium; and;

[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;

[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and

[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Squeezebox

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
	[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Squeezebox

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Squeezebox

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Squeezebox

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Squeezebox

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✗	**[1.9]** displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Squeezebox

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✘	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✘	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✘	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✘	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✘	**[1.8]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✘	**[1.9]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✘	**[1.10]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Squeezebox

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[1.8]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✗	**[1.9]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✗	**[1.10]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
✗	**[1.11]** based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Squeezebox

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[1.8]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✗	**[1.9]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✗	**[1.10]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
✗	**[1.11]** based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Bose Lifestyle

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
	[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
	[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Bose Lifestyle

[1.0] A computing device comprising:

[1.1] one or more processors;

[1.2] a non-transitory computer-readable medium; and;

[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;

[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and

[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Bose Lifestyle

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
	[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Bose Lifestyle

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✘	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✘	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✘	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Bose Lifestyle

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Bose Lifestyle

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[1.8]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Bose Lifestyle

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[1.8]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✗	**[1.9]** displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Bose Lifestyle

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[1.8]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✗	**[1.9]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✗	**[1.10]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

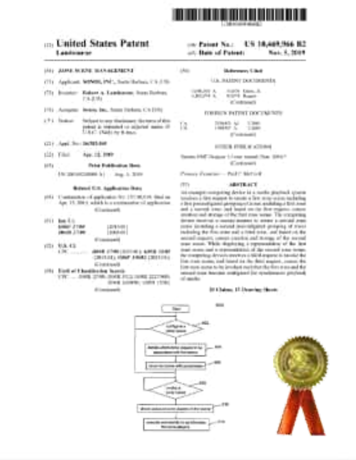
Validity of Claim 1 of the ’966 Patent – Bose Lifestyle

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[1.8]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✗	**[1.9]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✗	**[1.10]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
✗	**[1.11]** based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 1 of the ’966 Patent – Bose Lifestyle

	[1.0] A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[1.8]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✗	**[1.9]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✗	**[1.10]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
✗	**[1.11]** based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Claim 2 of the ’966 Patent



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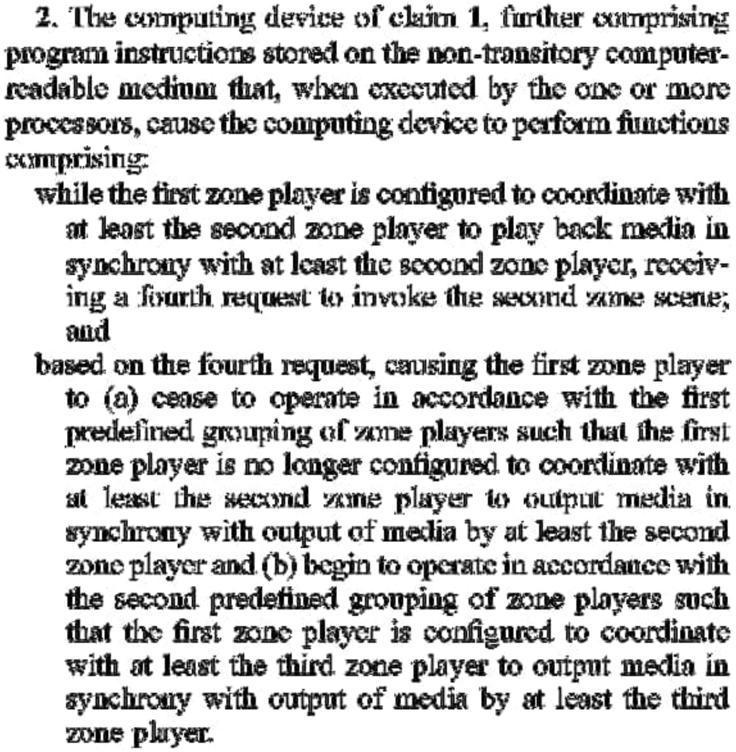


2. The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and

based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 2 of the ’966 Patent – 2005 Sonos System

	[2.0] The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[2.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[2.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 2 of the ’966 Patent – 2005 Sonos System

✘	**[2.0]** The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[2.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[2.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 2 of the ’966 Patent – 2005 Sonos System

✗	**[2.0]** The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[2.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[2.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 2 of the '966 Patent – 2005 Sonos System

✗	**[2.0]** The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[2.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
✗	**[2.2]** based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 2 of the ’966 Patent – 2005 Sonos System

✗	**[2.0]** The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[2.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
✗	**[2.2]** based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 2 of the ’966 Patent – Squeezebox

	[2.0] The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[2.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[2.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 2 of the ’966 Patent – Squeezebox

✗	**[2.0]** The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[2.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[2.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 2 of the ’966 Patent – Squeezebox

✗	**[2.0]** The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[2.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[2.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 2 of the ’966 Patent – Squeezebox

✗	**[2.0]** The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[2.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
✗	**[2.2]** based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 2 of the ’966 Patent – Squeezebox

✗	**[2.0]** The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[2.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
✗	**[2.2]** based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 2 of the ’966 Patent – Bose Lifestyle

	[2.0] The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[2.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[2.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 2 of the ’966 Patent – Bose Lifestyle

✗	**[2.0]** The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[2.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[2.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 2 of the ’966 Patent – Bose Lifestyle

✗	**[2.0]** The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[2.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[2.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

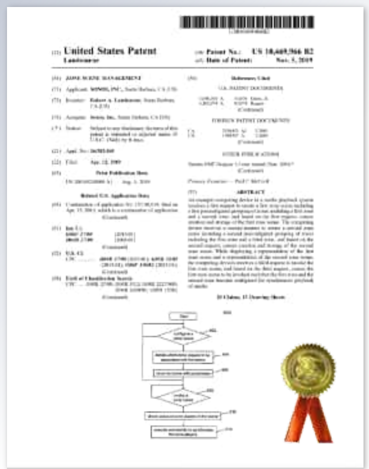
Validity of Claim 2 of the ’966 Patent – Bose Lifestyle

✗	[2.0] The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	[2.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
✗	**[2.2]** based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 2 of the ’966 Patent – Bose Lifestyle

✗	**[2.0]** The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[2.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
✗	**[2.2]** based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Claim 3 of the ’966 Patent



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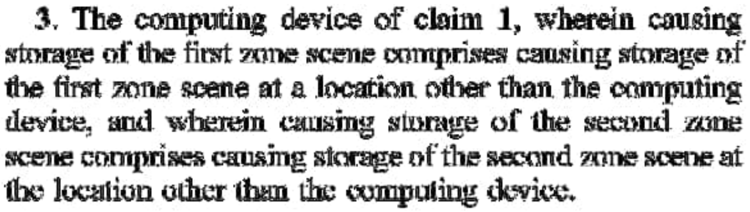


3. The computing device of claim 1, wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.

Validity of Claim 3 of the ’966 Patent – 2005 Sonos System

✗	**3.** The computing device of claim 1,
✗	wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.

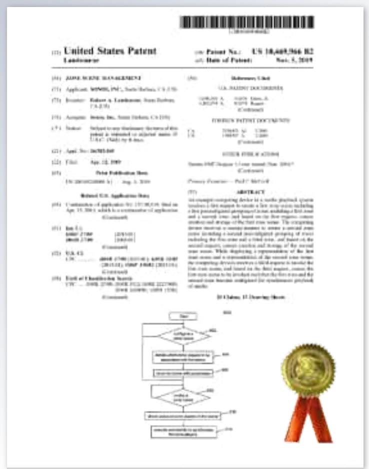
Validity of Claim 3 of the ’966 Patent – Squeezebox

✗	**3.** The computing device of claim 1,
✗	wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.

Validity of Claim 3 of the ’966 Patent – Bose Lifestyle

✗	**3.** The computing device of claim 1,
✗	wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.

Claim 4 of the ’966 Patent



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4. The computing device of claim 3, wherein the location other than the computing device comprises a zone player of the first predefined grouping of zone players.

Validity of Claim 4 of the ’966 Patent – 2005 Sonos System

✗	**4.** The computing device of claim 3,
✗	wherein the location other than the computing device comprises a zone player of the first predetermined grouping of zone players.

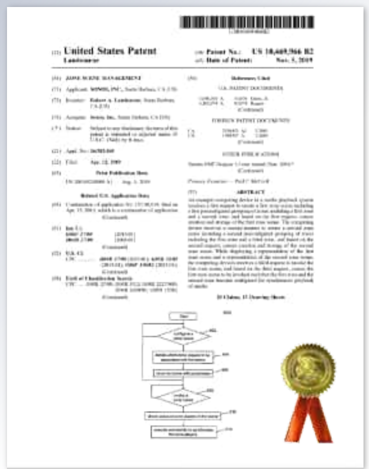
Validity of Claim 4 of the ’966 Patent – Squeezebox

✗	**4.** The computing device of claim 3,
✗	wherein the location other than the computing device comprises a zone player of the first predetermined grouping of zone players.

Validity of Claim 4 of the ’966 Patent – Bose Lifestyle

✗	**4.** The computing device of claim 3,
✗	wherein the location other than the computing device comprises a zone player of the first predetermined grouping of zone players.

Claim 6 of the ’966 Patent



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6. The computing device of claim **1**, wherein the first predefined grouping of zone players does not include the third zone player, and wherein the second predefined grouping of zone players does not include the second zone player.

Validity of Claim 6 of the ’966 Patent – 2005 Sonos System

✗	**6.** The computing device of claim 1,
✗	wherein the first predefined grouping of zone players does not include the third zone player, and wherein the second predefined grouping of zone players does not include the second zone player.

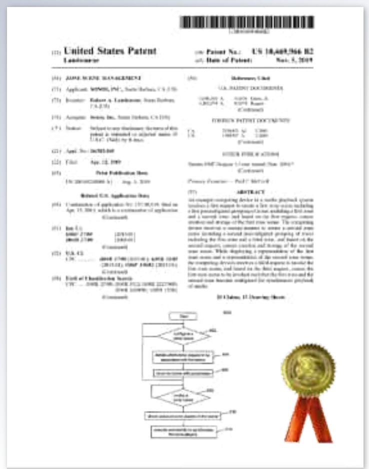
Validity of Claim 6 of the ’966 Patent – Squeezebox

✗	**6.** The computing device of claim 1,
✗	wherein the first predefined grouping of zone players does not include the third zone player, and wherein the second predefined grouping of zone players does not include the second zone player.

Validity of Claim 6 of the ’966 Patent – Bose Lifestyle

✗	**6.** The computing device of claim 1,
✗	wherein the first predefined grouping of zone players does not include the third zone player, and wherein the second predefined grouping of zone players does not include the second zone player.

Claim 8 of the ’966 Patent



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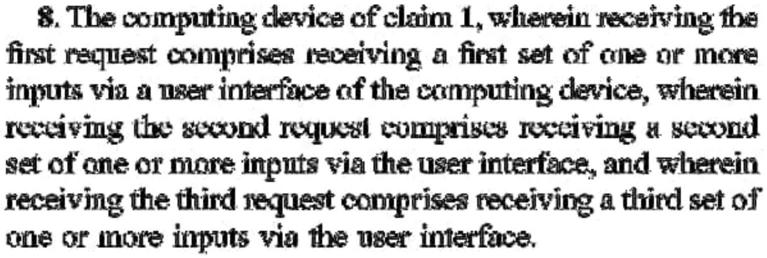


8. The computing device of claim 1, wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface.

Validity of Claim 8 of the ’966 Patent – 2005 Sonos System

✗	**8.** The computing device of claim 1,
✗	wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface.

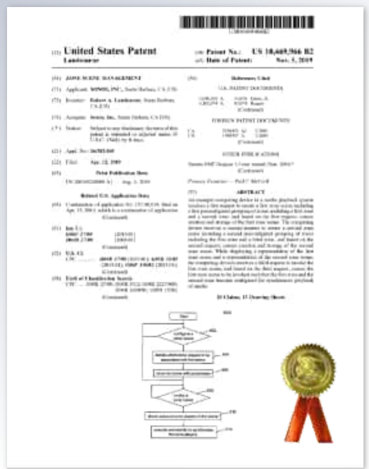
Validity of Claim 8 of the ’966 Patent – Squeezebox

✗	**8.** The computing device of claim 1,
✗	wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface.

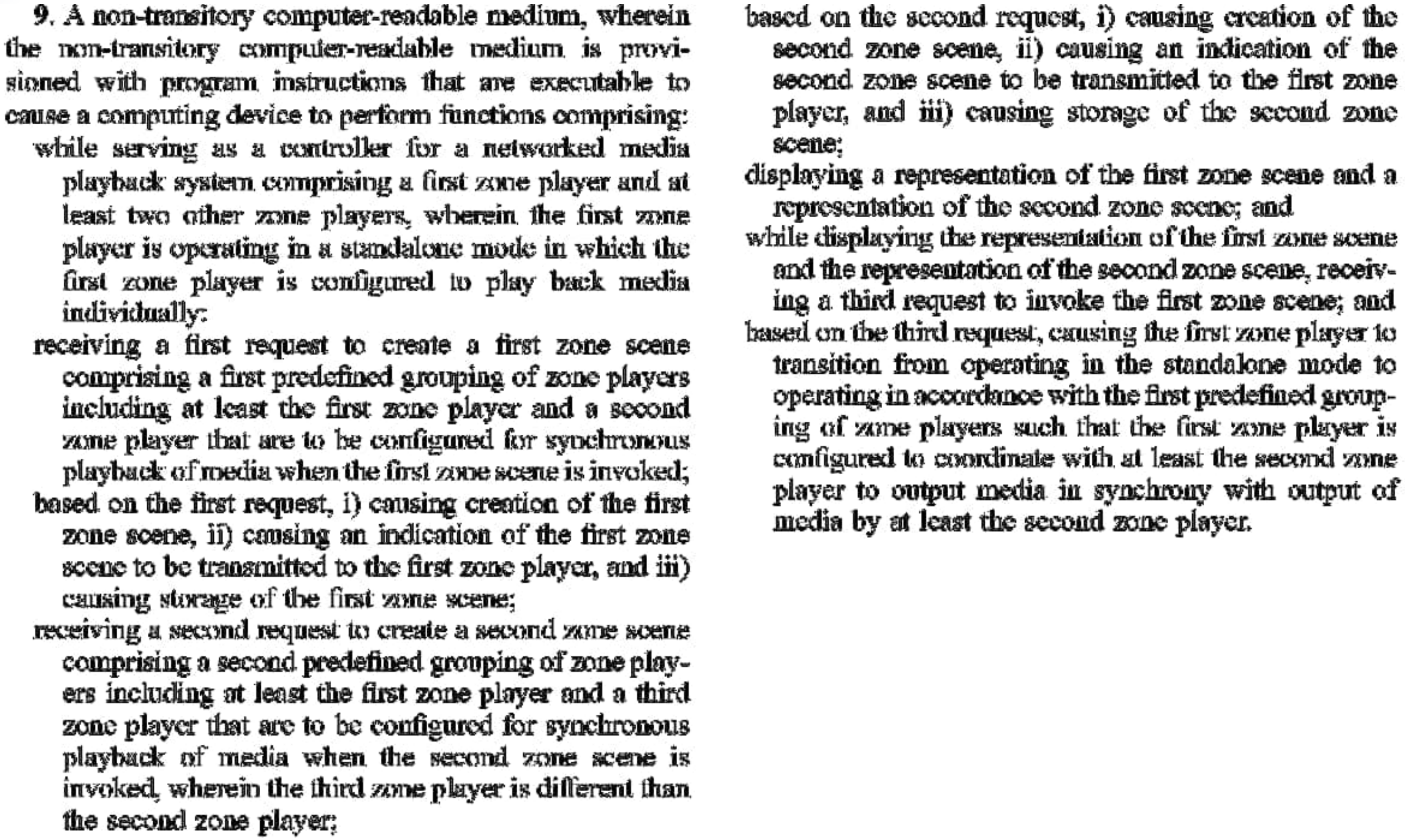
Validity of Claim 8 of the ’966 Patent – Bose Lifestyle

✗	**8.** The computing device of claim 1,
✗	wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface.

Claim 9 of the ’966 Patent



US 10,469,966



9. A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:

while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;

displaying a representation of the first zone scene and a representation of the second zone scene; and

while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – 2005 Sonos System

[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:

[9.1] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

[9.2] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

[9.3] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

[9.4] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

[9.5] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;

[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and

[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – 2005 Sonos System

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
	[9.2] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
	[9.3] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[9.4] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[9.5] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – 2005 Sonos System

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
	[9.3] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[9.4] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[9.5] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

EXHIBIT A - FILED UNDER SEAL

Validity of Claim 9 of the ’966 Patent – 2005 Sonos System

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[9.4] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[9.5] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the '966 Patent – 2005 Sonos System

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[9.5] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – 2005 Sonos System

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✘	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✘	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✘	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✘	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✘	**[9.5]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – 2005 Sonos System

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[9.5]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✗	**[9.6]** displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – 2005 Sonos System

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[9.5]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✗	**[9.6]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✗	**[9.7]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – 2005 Sonos System

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[9.5]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✗	**[9.6]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✗	**[9.7]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
✗	**[9.8]** based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – 2005 Sonos System

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✘	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✘	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✘	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✘	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✘	**[9.5]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✘	**[9.6]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✘	**[9.7]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
✘	**[9.8]** based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – Squeezebox

[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:

[9.1] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

[9.2] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

[9.3] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

[9.4] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

[9.5] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;

[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and

[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – Squeezebox

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
	[9.2] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
	[9.3] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[9.4] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[9.5] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – Squeezebox

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
	[9.3] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[9.4] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[9.5] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – Squeezebox

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[9.4] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[9.5] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – Squeezebox

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[9.5] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – Squeezebox

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✘	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✘	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✘	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✘	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✘	**[9.5]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – Squeezebox

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✘	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✘	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✘	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✘	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✘	**[9.5]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✘	**[9.6]** displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

EXHIBIT A - FILED UNDER SEAL

Validity of Claim 9 of the ’966 Patent – Squeezebox

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[9.5]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✗	**[9.6]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✗	**[9.7]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – Squeezebox

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✘	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✘	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✘	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✘	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✘	**[9.5]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✘	**[9.6]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✘	**[9.7]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
✘	**[9.8]** based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – Squeezebox

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[9.5]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✗	**[9.6]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✗	**[9.7]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
✗	**[9.8]** based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – Bose Lifestyle

[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:

[9.1] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

[9.2] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

[9.3] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

[9.4] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

[9.5] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;

[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and

[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – Bose Lifestyle

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
	[9.2] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
	[9.3] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[9.4] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[9.5] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – Bose Lifestyle

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
	[9.3] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[9.4] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[9.5] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – Bose Lifestyle

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[9.4] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[9.5] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – Bose Lifestyle

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[9.5] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – Bose Lifestyle

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[9.5]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – Bose Lifestyle

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[9.5]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✗	**[9.6]** displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

EXHIBIT A - FILED UNDER SEAL

Validity of Claim 9 of the '966 Patent – Bose Lifestyle

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[9.5]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✗	**[9.6]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✗	**[9.7]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

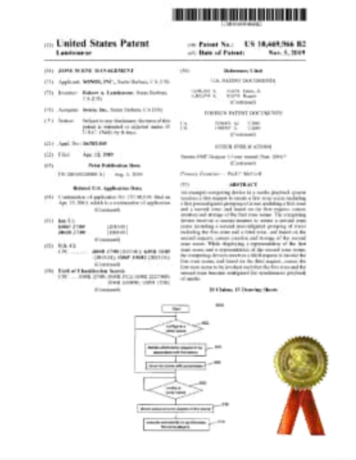
Validity of Claim 9 of the ’966 Patent – Bose Lifestyle

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✘	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✘	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✘	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✘	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✘	**[9.5]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✘	**[9.6]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✘	**[9.7]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
✘	**[9.8]** based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Validity of Claim 9 of the ’966 Patent – Bose Lifestyle

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✗	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✗	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✗	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✗	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✗	**[9.5]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✗	**[9.6]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✗	**[9.7]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
✗	**[9.8]** based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Claim 10 of the ’966 Patent



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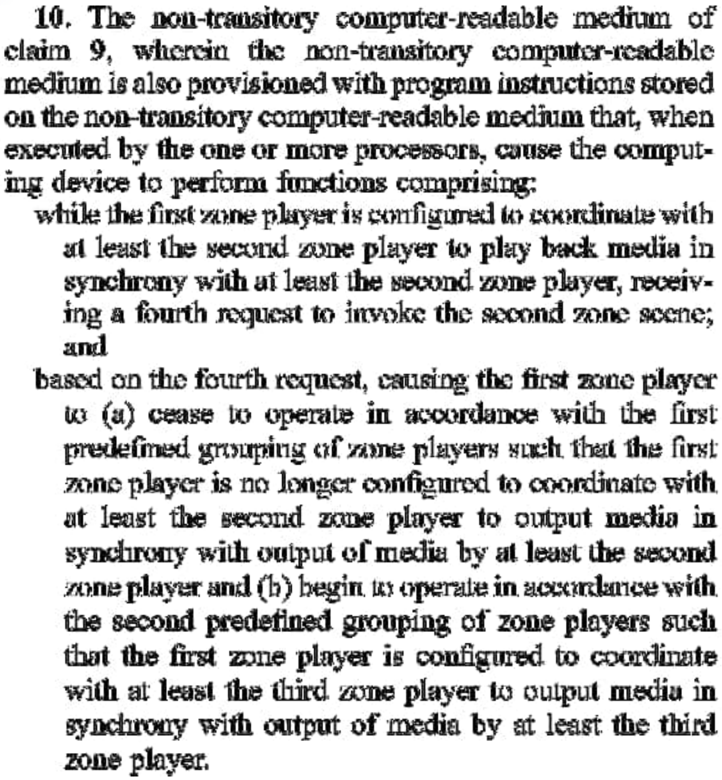


10. The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and

based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 10 of the ’966 Patent – 2005 Sonos System

	[10.0] The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[10.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[10.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 10 of the ’966 Patent – 2005 Sonos System

✗	**[10.0]** The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[10.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[10.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 10 of the ’966 Patent – 2005 Sonos System

✗	**[10.0]** The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[10.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[10.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

EXHIBIT A - FILED UNDER SEAL

Validity of Claim 10 of the ’966 Patent – 2005 Sonos System

✗	**[10.0]** The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[10.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
✗	**[10.2]** based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 10 of the ’966 Patent – 2005 Sonos System

✗	**[10.0]** The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[10.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
✗	**[10.2]** based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 10 of the ’966 Patent – Squeezebox

	[10.0] The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[10.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[10.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 10 of the ’966 Patent – Squeezebox

✗	**[10.0]** The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[10.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[10.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 10 of the ’966 Patent – Squeezebox

✗	**[10.0]** The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[10.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[10.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 10 of the ’966 Patent – Squeezebox

✗	**[10.0]** The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[10.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
✗	**[10.2]** based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 10 of the ’966 Patent – Squeezebox

✗	**[10.0]** The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[10.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
✗	**[10.2]** based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 10 of the ’966 Patent – Bose Lifestyle

	[10.0] The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[10.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[10.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 10 of the ’966 Patent – Bose Lifestyle

✗	**[10.0]** The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[10.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[10.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 10 of the ’966 Patent – Bose Lifestyle

✗	**[10.0]** The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[10.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[10.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 10 of the '966 Patent – Bose Lifestyle

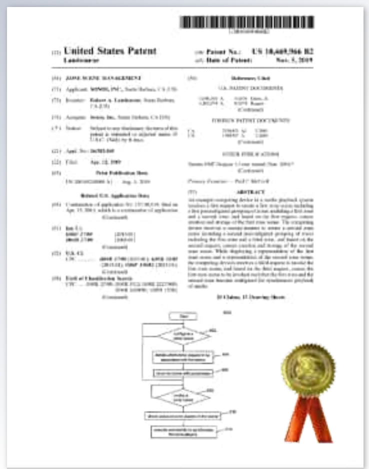
✗	**[10.0]** The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[10.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
✗	**[10.2]** based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Validity of Claim 10 of the ’966 Patent – Bose Lifestyle

✗	**[10.0]** The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✗	**[10.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
✗	**[10.2]** based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

EXHIBIT A - FILED UNDER SEAL

Claim 11 of the ’966 Patent



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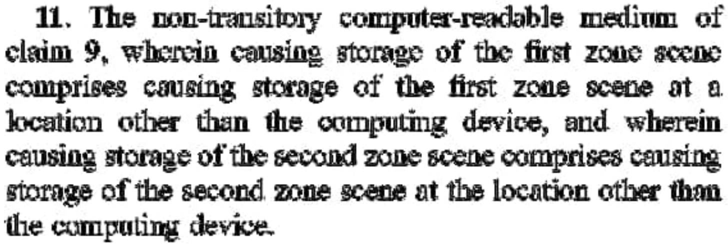


11. The non-transitory computer-readable medium of claim 9, wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.

Validity of Claim 11 of the ’966 Patent – 2005 Sonos System

	11. The non-transitory computer-readable medium of claim 9,
	wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.

Validity of Claim 11 of the ’966 Patent – 2005 Sonos System

✗	**11.** The non-transitory computer-readable medium of claim 9,
✗	wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.

Validity of Claim 11 of the ’966 Patent – Squeezebox

	11. The non-transitory computer-readable medium of claim 9,
	wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.

Validity of Claim 11 of the ’966 Patent – Squeezebox

✗	**11.** The non-transitory computer-readable medium of claim 9,
✗	wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.

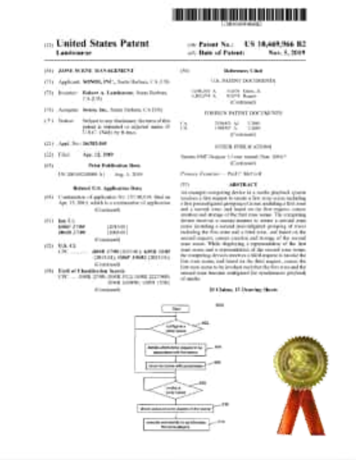
Validity of Claim 11 of the ’966 Patent – Bose Lifestyle

	11. The non-transitory computer-readable medium of claim 9,
	wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.

Validity of Claim 11 of the ’966 Patent – Bose Lifestyle

✗	**11.** The non-transitory computer-readable medium of claim 9,
✗	wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.

Claim 12 of the ’966 Patent



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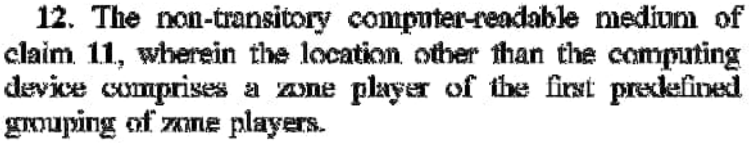


12. The non-transitory computer-readable medium of claim 11, wherein the location other than the computing device comprises a zone player of the first predefined grouping of zone players.

Validity of Claim 12 of the ’966 Patent – 2005 Sonos System

	12. The non-transitory computer-readable medium of claim 11,
	wherein the location other than the computing device comprises a zone player of the first predefined grouping of zone players.

Validity of Claim 12 of the ’966 Patent – 2005 Sonos System

✗	**12.** The non-transitory computer-readable medium of claim 11,
✗	wherein the location other than the computing device comprises a zone player of the first predefined grouping of zone players.

Validity of Claim 12 of the ’966 Patent – Squeezebox

	12. The non-transitory computer-readable medium of claim 11,
	wherein the location other than the computing device comprises a zone player of the first predefined grouping of zone players.

Validity of Claim 12 of the ’966 Patent – Squeezebox

✗	**12.** The non-transitory computer-readable medium of claim 11,
✗	wherein the location other than the computing device comprises a zone player of the first predefined grouping of zone players.

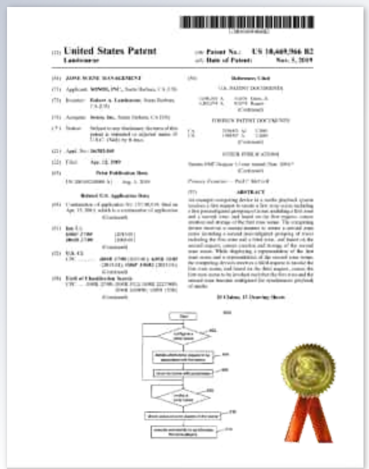
Validity of Claim 12 of the '966 Patent – Bose Lifestyle

	12. The non-transitory computer-readable medium of claim 11,
	wherein the location other than the computing device comprises a zone player of the first predefined grouping of zone players.

Validity of Claim 12 of the ’966 Patent – Bose Lifestyle

✗	**12.** The non-transitory computer-readable medium of claim 11,
✗	wherein the location other than the computing device comprises a zone player of the first predefined grouping of zone players.

Claim 14 of the ’966 Patent



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14. The non-transitory computer-readable medium of claim 9, wherein the first predefined grouping of zone players does not include the third zone player, and wherein the second predefined grouping of zone players does not include the second zone player.

Validity of Claim 14 of the ’966 Patent – 2005 Sonos System

	14. The non-transitory computer-readable medium of claim 9,
	wherein the first predefined grouping of zone players does not include the third zone player, and wherein the second predefined grouping of zone players does not include the second zone player.

Validity of Claim 14 of the ’966 Patent – 2005 Sonos System

✗	**14.** The non-transitory computer-readable medium of claim 9,
✗	wherein the first predefined grouping of zone players does not include the third zone player, and wherein the second predefined grouping of zone players does not include the second zone player.

Validity of Claim 14 of the ’966 Patent – Squeezebox

	14. The non-transitory computer-readable medium of claim 9,
	wherein the first predefined grouping of zone players does not include the third zone player, and wherein the second predefined grouping of zone players does not include the second zone player.

Validity of Claim 14 of the ’966 Patent – Squeezebox

✗	**14.** The non-transitory computer-readable medium of claim 9,
✗	wherein the first predefined grouping of zone players does not include the third zone player, and wherein the second predefined grouping of zone players does not include the second zone player.

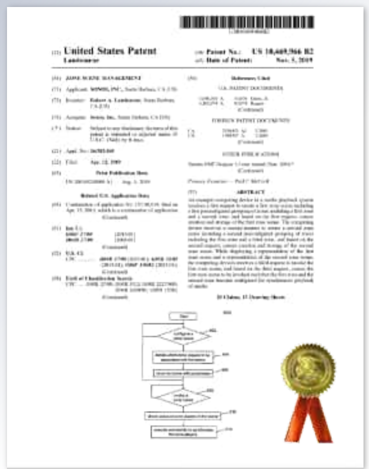
Validity of Claim 14 of the ’966 Patent – Bose Lifestyle

	14. The non-transitory computer-readable medium of claim 9,
	wherein the first predefined grouping of zone players does not include the third zone player, and wherein the second predefined grouping of zone players does not include the second zone player.

Validity of Claim 14 of the ’966 Patent – Bose Lifestyle

✗	**14.** The non-transitory computer-readable medium of claim 9,
✗	wherein the first predefined grouping of zone players does not include the third zone player, and wherein the second predefined grouping of zone players does not include the second zone player.

Claim 16 of the ’966 Patent



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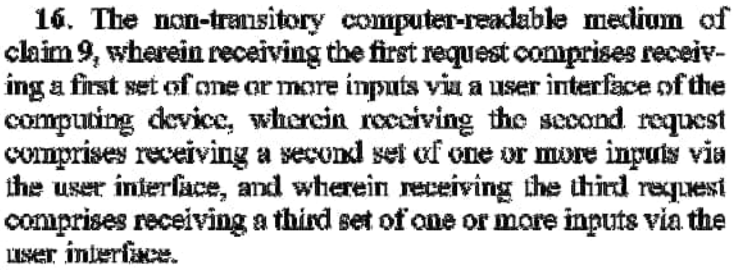


16. The non-transitory computer-readable medium of claim 9, wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface.

Validity of Claim 16 of the ’966 Patent – 2005 Sonos System

	16. The non-transitory computer-readable medium of claim 9,
	wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface.

EXHIBIT A - FILED UNDER SEAL

Validity of Claim 16 of the ’966 Patent – 2005 Sonos System

✗	**16.** The non-transitory computer-readable medium of claim 9,
✗	wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface.

Validity of Claim 16 of the ’966 Patent – Squeezebox

	16. The non-transitory computer-readable medium of claim 9,
	wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface.

Validity of Claim 16 of the ’966 Patent – Squeezebox

✗	**16.** The non-transitory computer-readable medium of claim 9,
✗	wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface.

Validity of Claim 16 of the ’966 Patent – Bose Lifestyle

	16. The non-transitory computer-readable medium of claim 9,
	wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface.

Validity of Claim 16 of the ’966 Patent – Bose Lifestyle

✗	**16.** The non-transitory computer-readable medium of claim 9,
✗	wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface.

Conclusion

Asserted Claims	Google's References	Invalid?
'966 Patent Asserted Claims 1, 2, 4, 6, 8-10, 12, 14, and 16	**2005 Sonos System** + POSITA + Sonos Forums + Nourse + Millington	✗
	Squeezebox + POSITA + 2005 Sonos System + Sonos Forums + Bose Lifestyle + Millington	✗
	Bose Lifestyle + POSITA + Sonos Forums + Nourse + Rajapakse + Millington	✗

EXHIBIT A - FILED UNDER SEAL

Exhibit Q

Case No. 3:20-cv-06754-WHA
Related to Case No. 3:21-cv-07559-WHA

Sonos v. Google

Dr. Kevin Almeroth

November 30, 2022

Qualifications

Academic Appointments

Professor, Dept. of Computer Science
UC Santa Barbara (1997-2020)

Vice Chair, Dept. of Computer Science
UC Santa Barbara (2001-2005)

Associate Dean, College of Engineering
UC Santa Barbara (2007-2009)

Education

Georgia Institute of Technology

Ph.D. Computer Science	*1997*
M.S. Computer Science	*1994*
B.S. Computer Science	*1992*

Research Experience

25+ years of experience as a computer networking researcher

Approximately 200 peer-reviewed publications

19 released software systems

Qualifications

Relevant Experience

UCSB

Research themes include:

- Streaming media in the Internet
- Delivery of multimedia content between computing devices
- Wireless networking

IETF

Active in Internet Engineering Task Force (IETF) for 20+ years:

- Developed standards to support multimedia data delivery
- Developed standards to support network monitoring & management

Industry Collaborations

HITACHI
OCCAM NETWORKS
IBM
hp
intel
DF Digital Fountain
real
LOCKHEED MARTIN
Redback NETWORKS
JUNIPer NETWORKS
U.S. AIR FORCE
CISCO

Awards & Honors

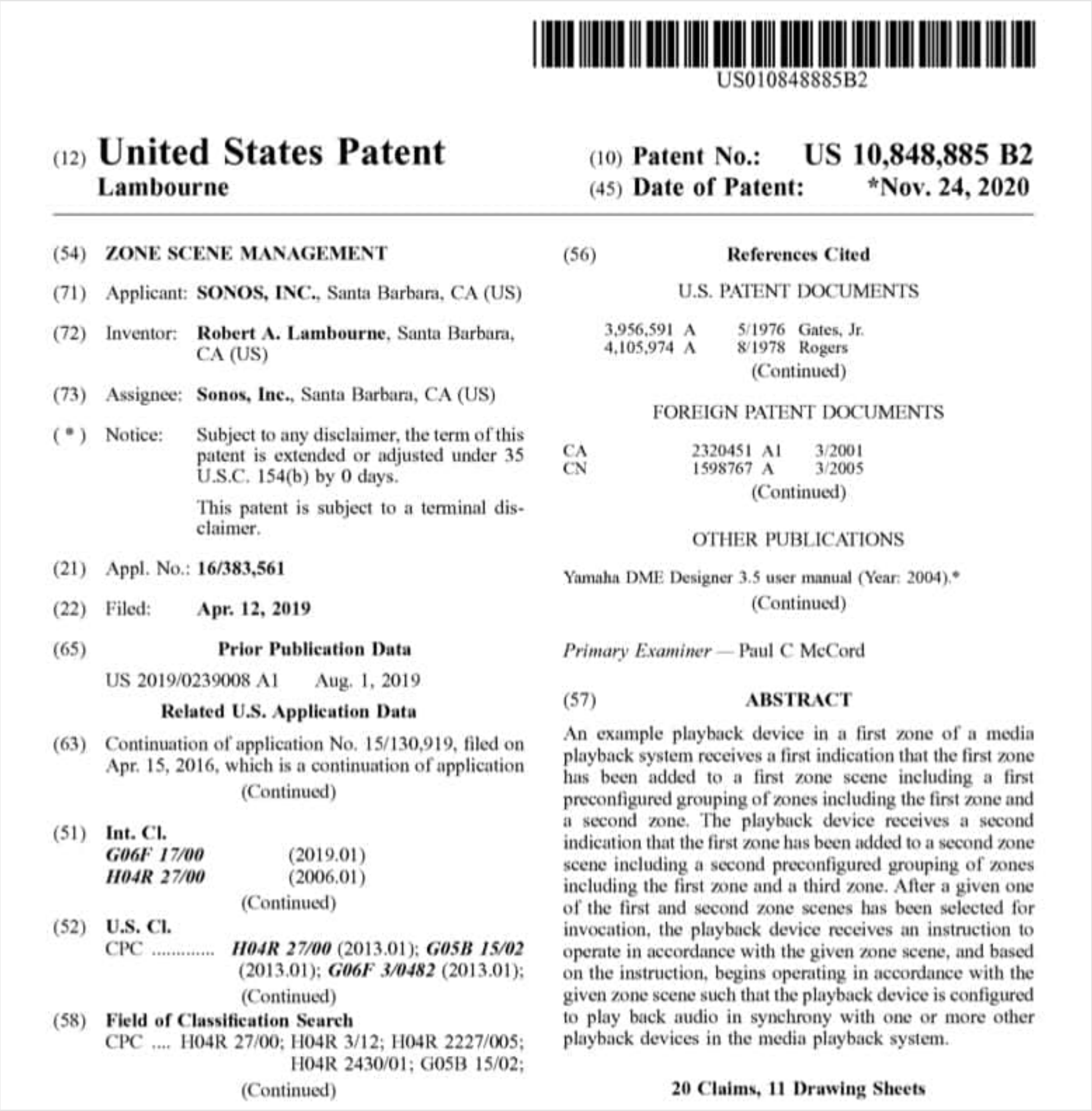
- **Numerous teaching awards**
- **Numerous honors and awards for original research**

IEEE

- **Recognized as IEEE Fellow**

EXHIBIT A - FILED UNDER SEAL

Assignment – Infringement of '885 Patent



US010848885B2

(12) **United States Patent**
Lambourne

(10) **Patent No.: US 10,848,885 B2**
(45) **Date of Patent: *Nov. 24, 2020**

(54) **ZONE SCENE MANAGEMENT**

(71) Applicant: **SONOS, INC.**, Santa Barbara, CA (US)

(72) Inventor: **Robert A. Lambourne**, Santa Barbara, CA (US)

(73) Assignee: **Sonos, Inc.**, Santa Barbara, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **16/383,561**

(22) Filed: **Apr. 12, 2019**

(65) **Prior Publication Data**

US 2019/0239008 A1 Aug. 1, 2019

Related U.S. Application Data

(63) Continuation of application No. 15/130,919, filed on Apr. 15, 2016, which is a continuation of application

(Continued)

(51) **Int. Cl.**
G06F 17/00 (2019.01)
H04R 27/00 (2006.01)
(Continued)

(52) **U.S. Cl.**
CPC ***H04R 27/00*** (2013.01); ***G05B 15/02*** (2013.01); ***G06F 3/0482*** (2013.01);
(Continued)

(58) **Field of Classification Search**
CPC H04R 27/00; H04R 3/12; H04R 2227/005; H04R 2430/01; G05B 15/02;
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,956,591	A	5/1976	Gates, Jr.
4,105,974	A	8/1978	Rogers

(Continued)

FOREIGN PATENT DOCUMENTS

CA	2320451	A1	3/2001
CN	1598767	A	3/2005

(Continued)

OTHER PUBLICATIONS

Yamaha DME Designer 3.5 user manual (Year: 2004).*

(Continued)

Primary Examiner — Paul C McCord

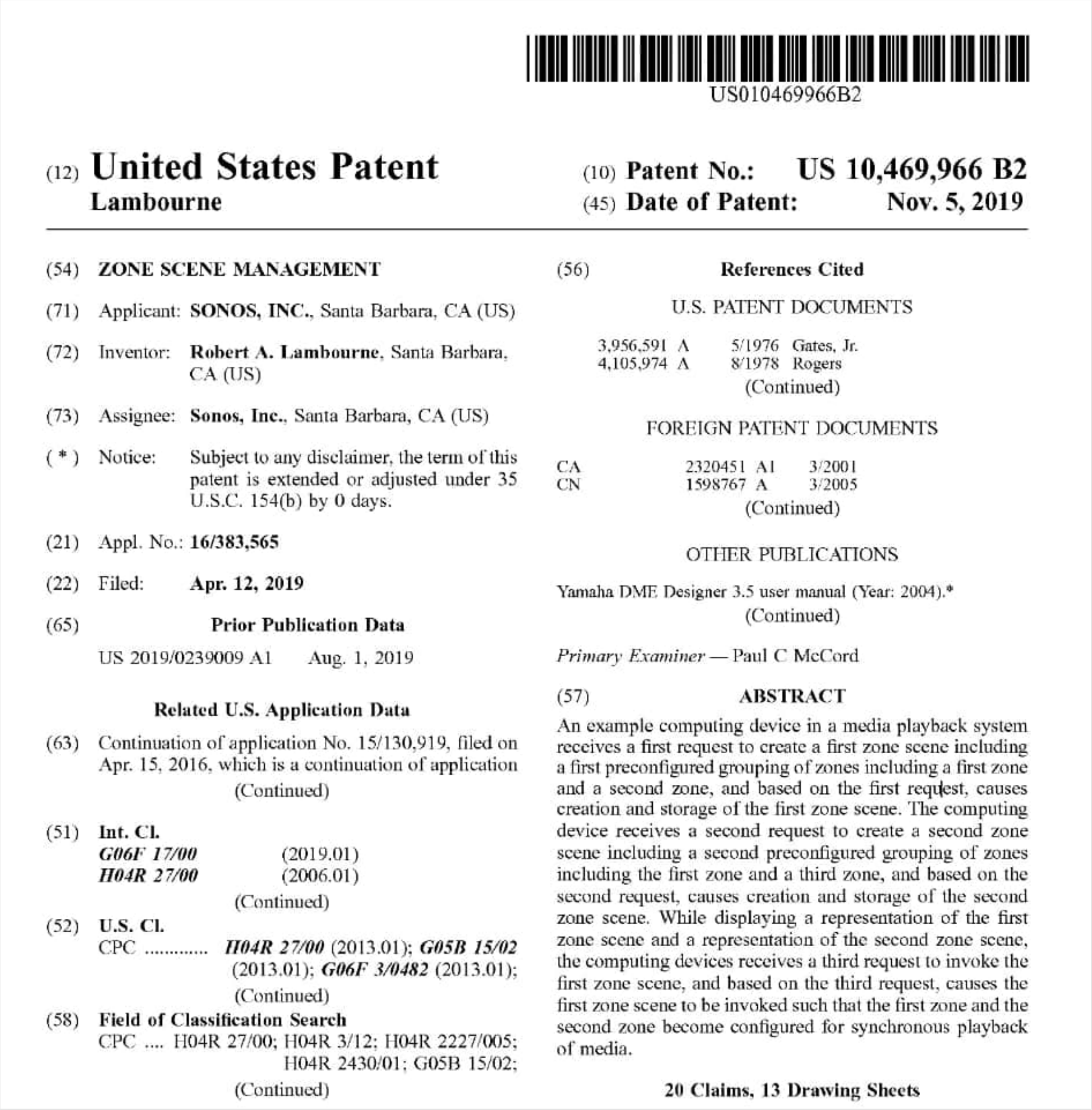
(57) **ABSTRACT**

An example playback device in a first zone of a media playback system receives a first indication that the first zone has been added to a first zone scene including a first preconfigured grouping of zones including the first zone and a second zone. The playback device receives a second indication that the first zone has been added to a second zone scene including a second preconfigured grouping of zones including the first zone and a third zone. After a given one of the first and second zone scenes has been selected for invocation, the playback device receives an instruction to operate in accordance with the given zone scene, and based on the instruction, begins operating in accordance with the given zone scene such that the playback device is configured to play back audio in synchrony with one or more other playback devices in the media playback system.

20 Claims, 11 Drawing Sheets

EXHIBIT A - FILED UNDER SEAL

Assignment – Infringement of '966 Patent



US010469966B2

(12) **United States Patent**
Lambourne

(10) **Patent No.: US 10,469,966 B2**
(45) **Date of Patent: Nov. 5, 2019**

(54) **ZONE SCENE MANAGEMENT**

(71) Applicant: **SONOS, INC.**, Santa Barbara, CA (US)

(72) Inventor: **Robert A. Lambourne**, Santa Barbara, CA (US)

(73) Assignee: **Sonos, Inc.**, Santa Barbara, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **16/383,565**

(22) Filed: **Apr. 12, 2019**

(65) **Prior Publication Data**

US 2019/0239009 A1 Aug. 1, 2019

Related U.S. Application Data

(63) Continuation of application No. 15/130,919, filed on Apr. 15, 2016, which is a continuation of application
(Continued)

(51) **Int. Cl.**

G06F 17/00	(2019.01)
H04R 27/00	(2006.01)

(Continued)

(52) **U.S. Cl.**
CPC ***H04R 27/00*** (2013.01); ***G05B 15/02*** (2013.01); ***G06F 3/0482*** (2013.01);
(Continued)

(58) **Field of Classification Search**
CPC H04R 27/00; H04R 3/12; H04R 2227/005; H04R 2430/01; G05B 15/02;
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,956,591	A	5/1976	Gates, Jr.
4,105,974	A	8/1978	Rogers

(Continued)

FOREIGN PATENT DOCUMENTS

CA	2320451	A1	3/2001
CN	1598767	A	3/2005

(Continued)

OTHER PUBLICATIONS

Yamaha DME Designer 3.5 user manual (Year: 2004).*
(Continued)

Primary Examiner — Paul C McCord

(57) **ABSTRACT**

An example computing device in a media playback system receives a first request to create a first zone scene including a first preconfigured grouping of zones including a first zone and a second zone, and based on the first request, causes creation and storage of the first zone scene. The computing device receives a second request to create a second zone scene including a second preconfigured grouping of zones including the first zone and a third zone, and based on the second request, causes creation and storage of the second zone scene. While displaying a representation of the first zone scene and a representation of the second zone scene, the computing devices receives a third request to invoke the first zone scene, and based on the third request, causes the first zone scene to be invoked such that the first zone and the second zone become configured for synchronous playback of media.

20 Claims, 13 Drawing Sheets

Assignment – Infringement of '885 Patent

Chromecast

Chromecast Ultra

Chromecast with Google TV

Home

Home Mini

Home Max

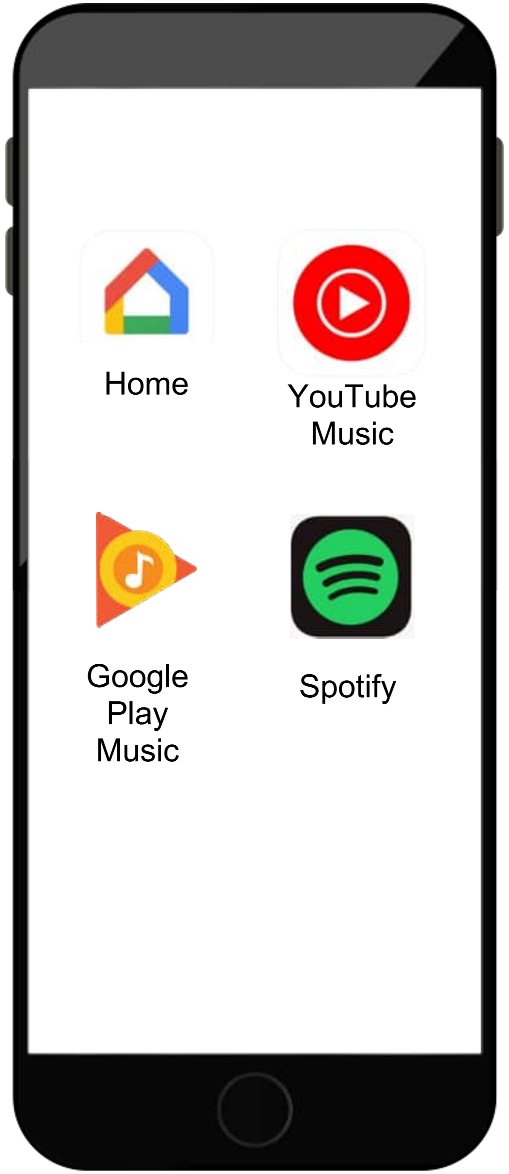
Nest Audio

Nest Mini

Nest Hub

Nest Hub Max

Nest Wifi Point


Home
YouTube Music
Google Play Music
Spotify

Assignment – Infringement of '966 Patent

Google "Pixel" Devices

Third-Party Devices

Apple

Samsung

Asus

HP

Lenovo

Motorola

Acer

OnePlus

+

Google Home

Google Play Music

YouTube Music

Spotify

Assignment – Infringement of '966 Patent

Google "Pixel" Devices

Third-Party Devices

Apple

Samsung

Asus

HP

Lenovo

Motorola

Acer

OnePlus

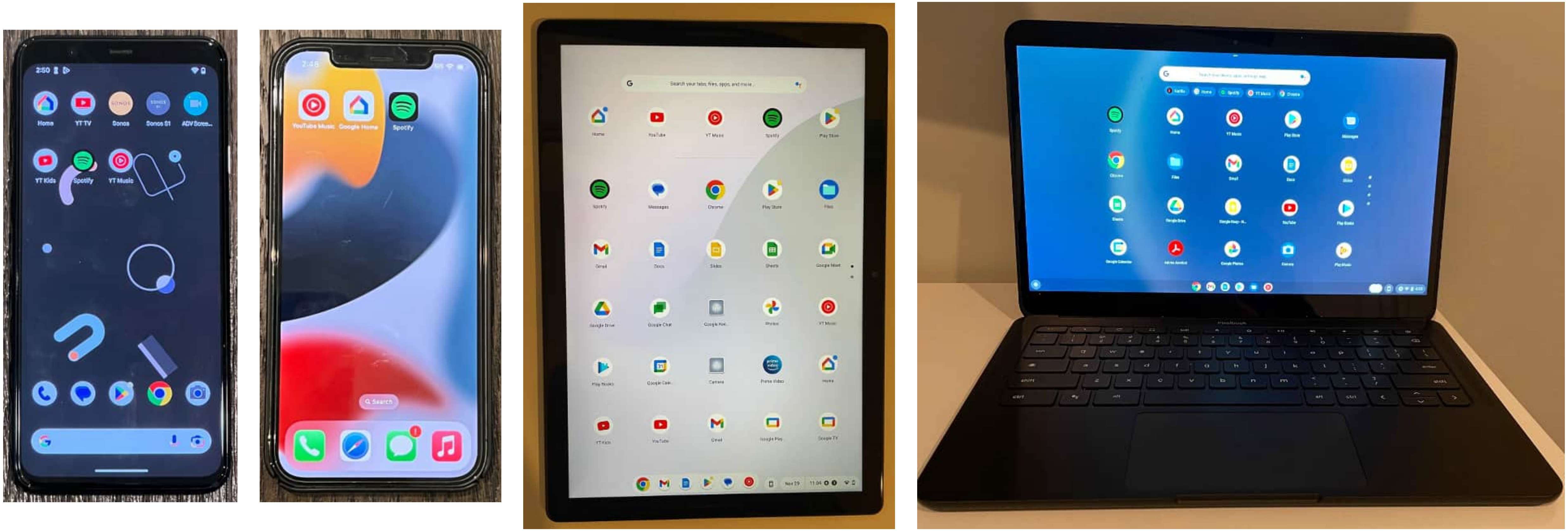
+

Google Home

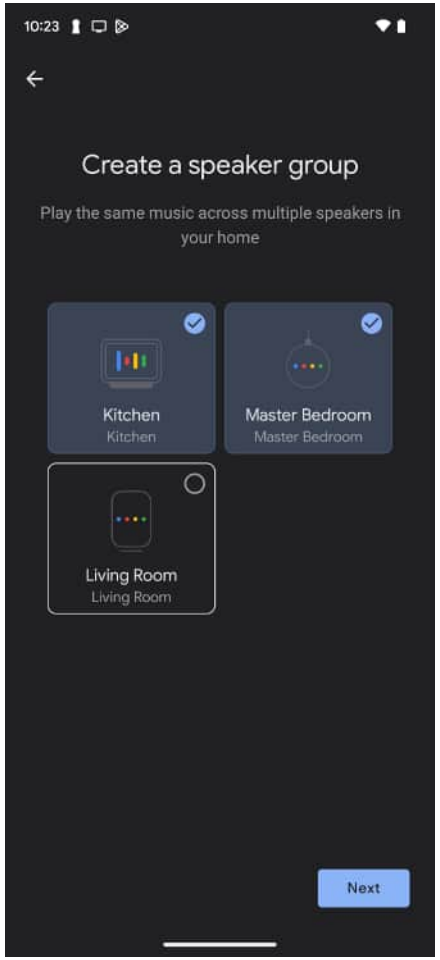
Assignment – Infringement of '885 Patent

11:45
55°
38 AQI

Assignment – Infringement of '966 Patent


Home
YT TV
Sonos
Sonos S1
ADV Scree...
YT Kids
Spotify
YT Music
YouTube Music
Google Home
Spotify
Search

Infringement of ’966 Patent: Android = ChromeOS = iOS


10:23

Create a speaker group

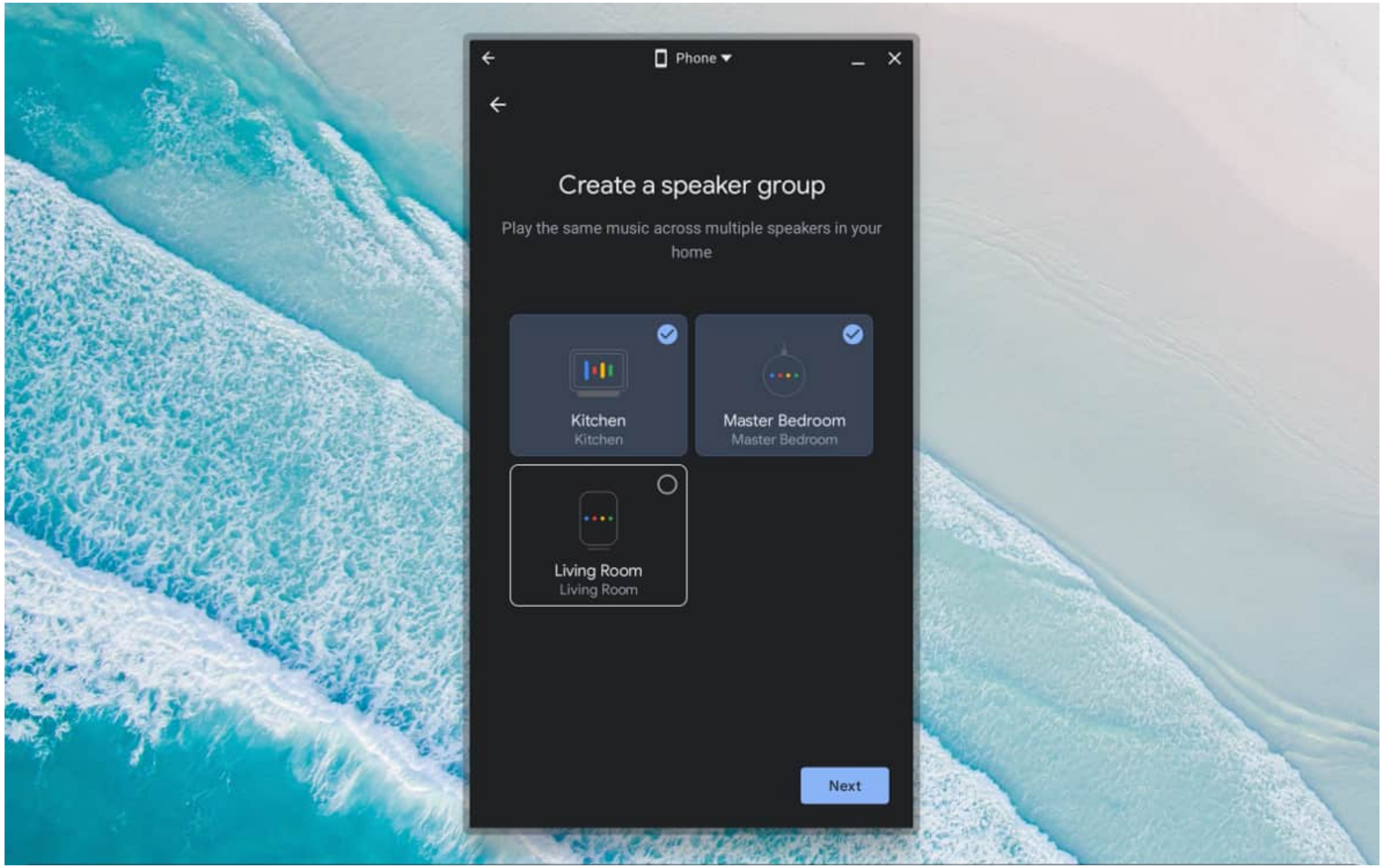
Play the same music across multiple speakers in your home

☑ Kitchen
Kitchen

☑ Master Bedroom
Master Bedroom

○ Living Room
Living Room

Next


Phone

Create a speaker group

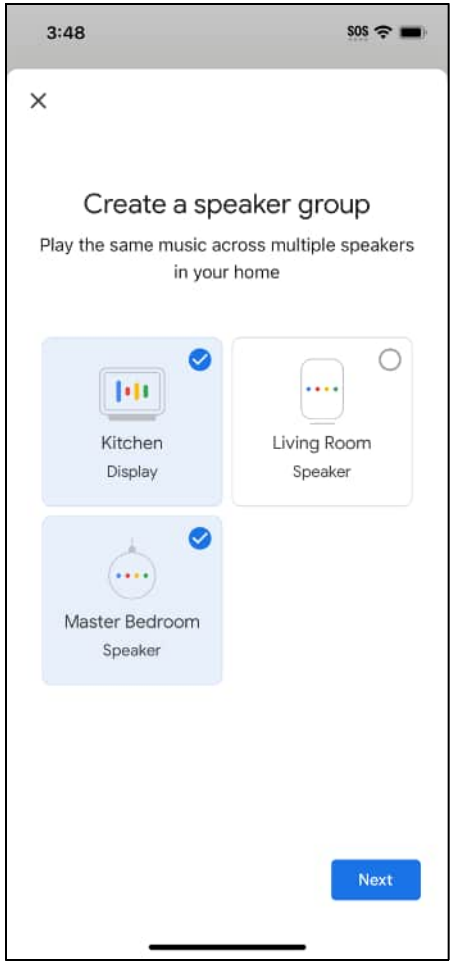
Play the same music across multiple speakers in your home

☑ Kitchen
Kitchen

☑ Master Bedroom
Master Bedroom

○ Living Room
Living Room

Next


3:48

Create a speaker group

Play the same music across multiple speakers in your home

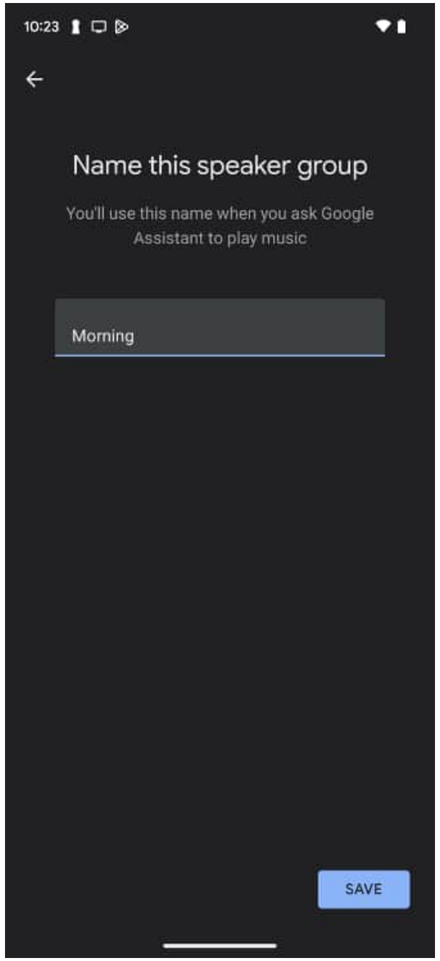
☑ Kitchen
Display

○ Living Room
Speaker

☑ Master Bedroom
Speaker

Next

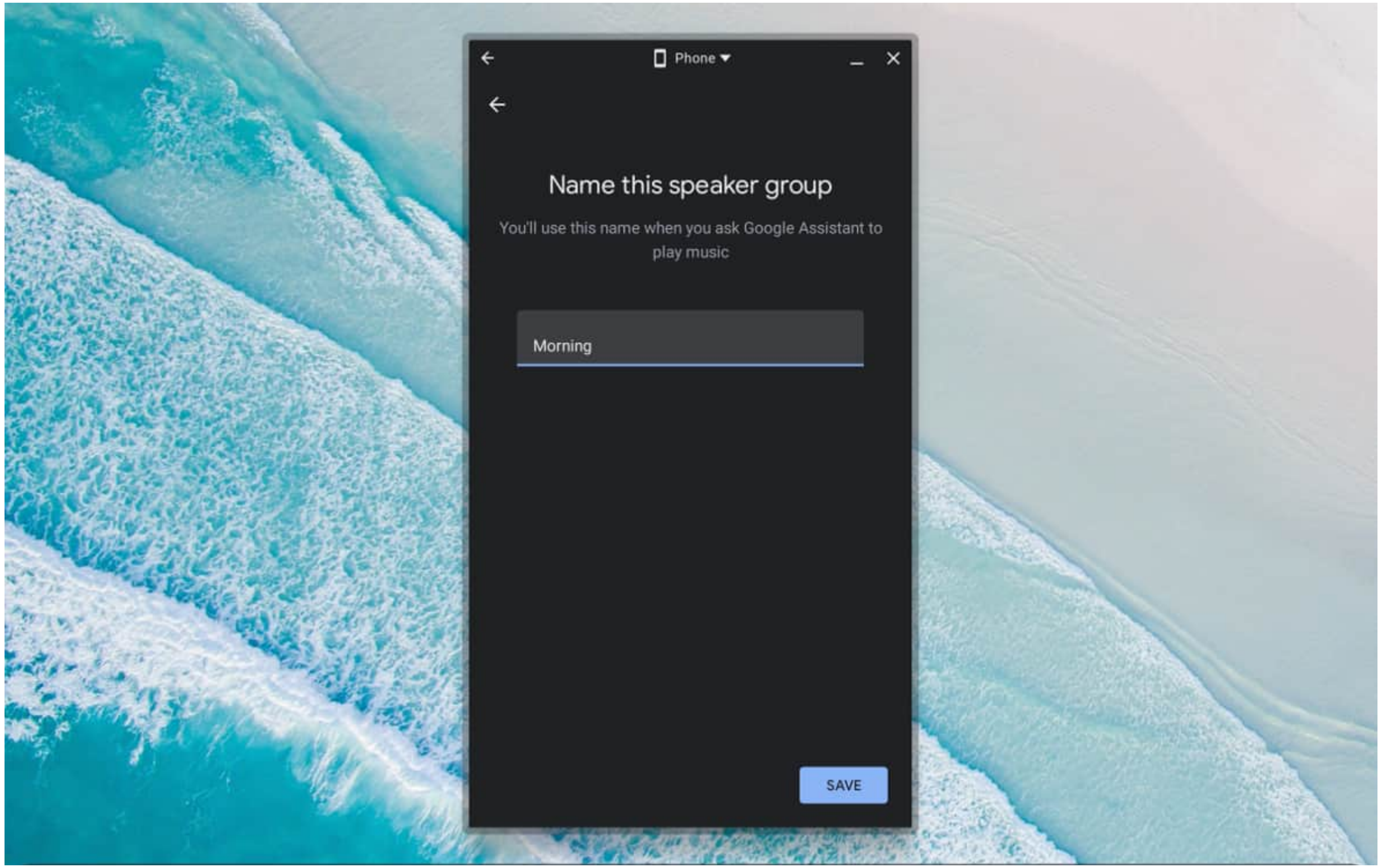
Infringement of '966 Patent: Android = ChromeOS = iOS



Name this speaker group

You'll use this name when you ask Google Assistant to play music

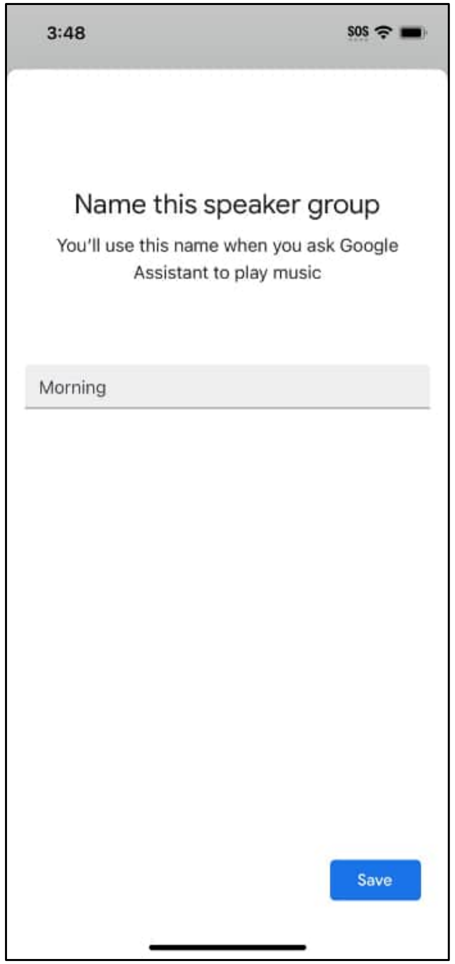
Morning



Name this speaker group

You'll use this name when you ask Google Assistant to play music

Morning

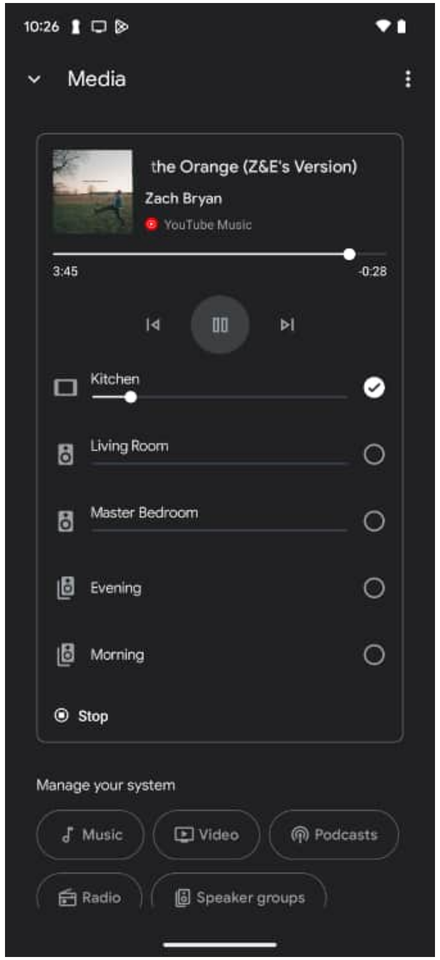


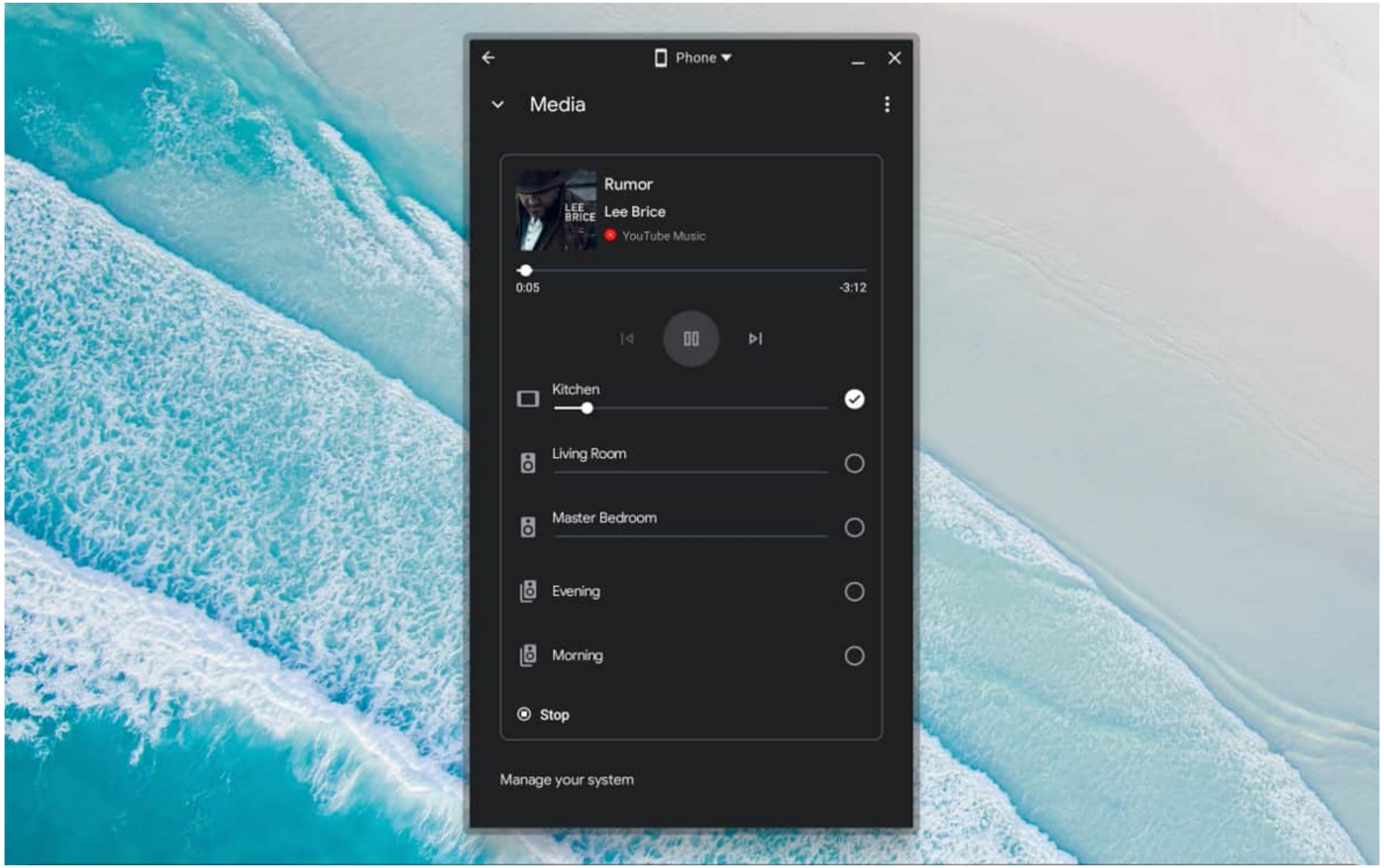
Name this speaker group

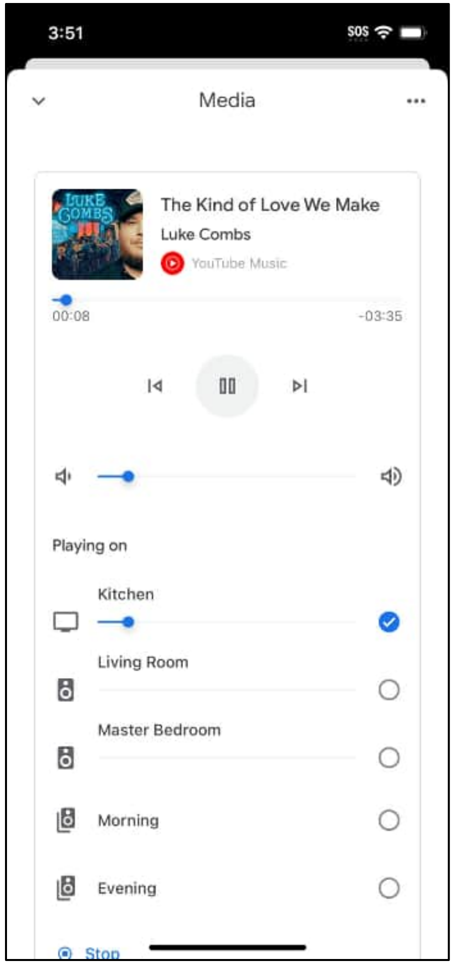
You'll use this name when you ask Google Assistant to play music

Morning

Infringement of ’966 Patent: Android = ChromeOS = iOS


10:26
Media
the Orange (Z&E's Version)
Zach Bryan
YouTube Music
3:45
-0:28
Kitchen
Living Room
Master Bedroom
Evening
Morning
Stop
Manage your system
Music
Video
Podcasts
Radio
Speaker groups


Phone
Media
Rumor
Lee Brice
YouTube Music
0:05
-3:12
Kitchen
Living Room
Master Bedroom
Evening
Morning
Stop
Manage your system


3:51
SOS
Media
The Kind of Love We Make
Luke Combs
YouTube Music
00:08
-03:35
Playing on
Kitchen
Living Room
Master Bedroom
Morning
Evening
Stop

Assignment – Infringement of '885 Patent

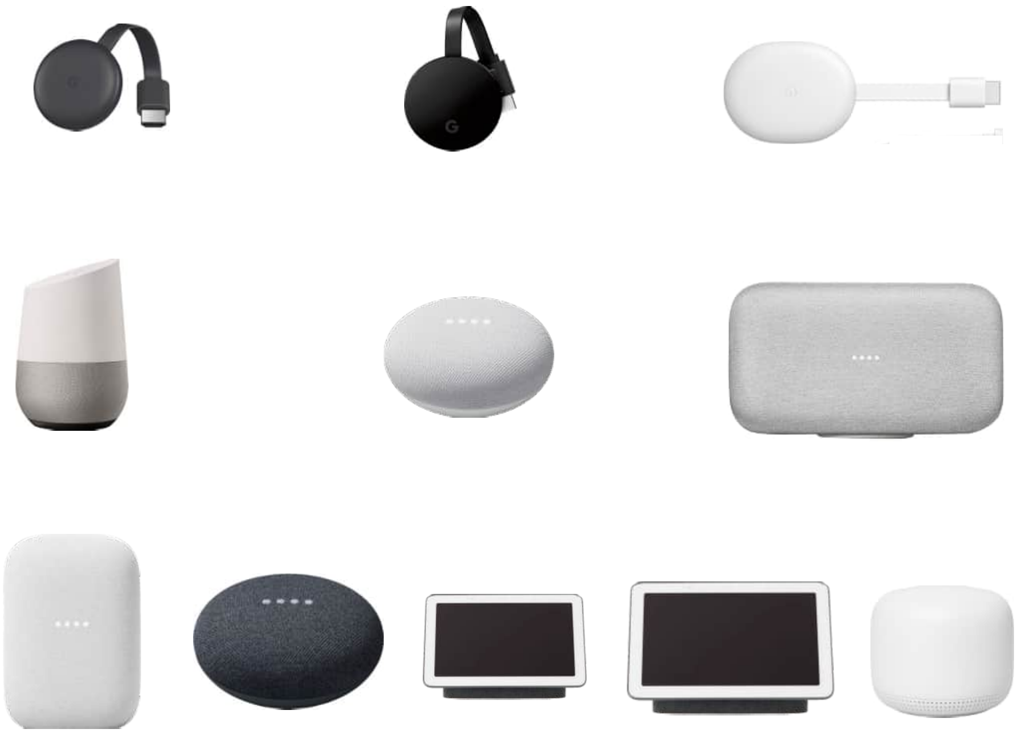
Asserted Claim	Accused Google Players	Infringe?
Claim 1 of US 10,848,885		?

EXHIBIT A - FILED UNDER SEAL

Assignment – Infringement of '966 Patent

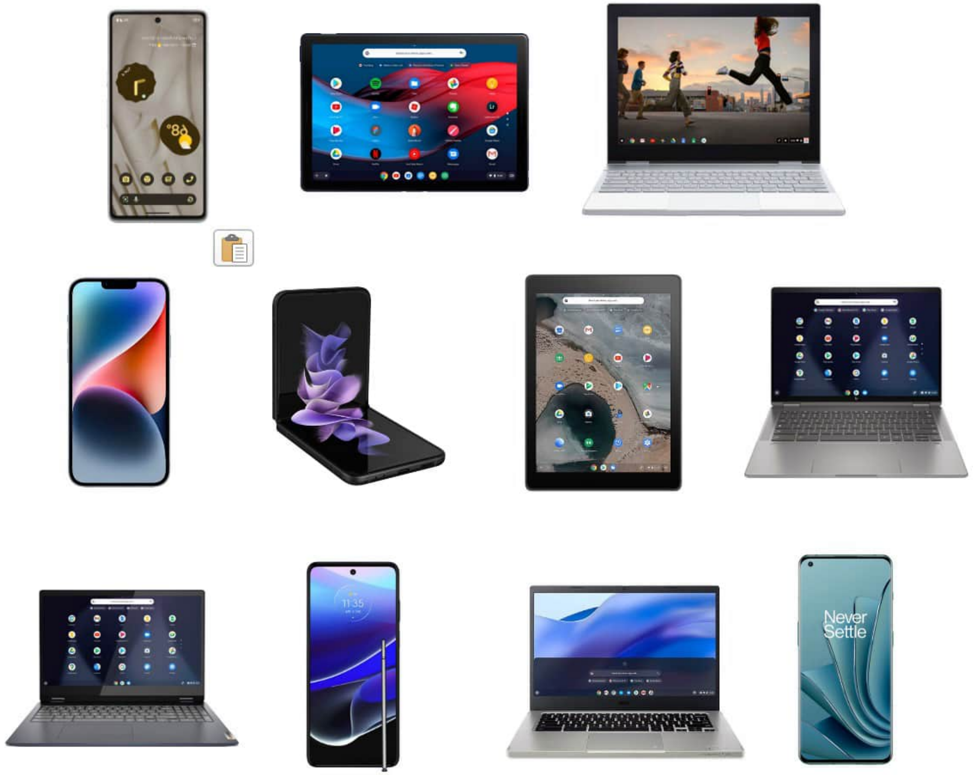
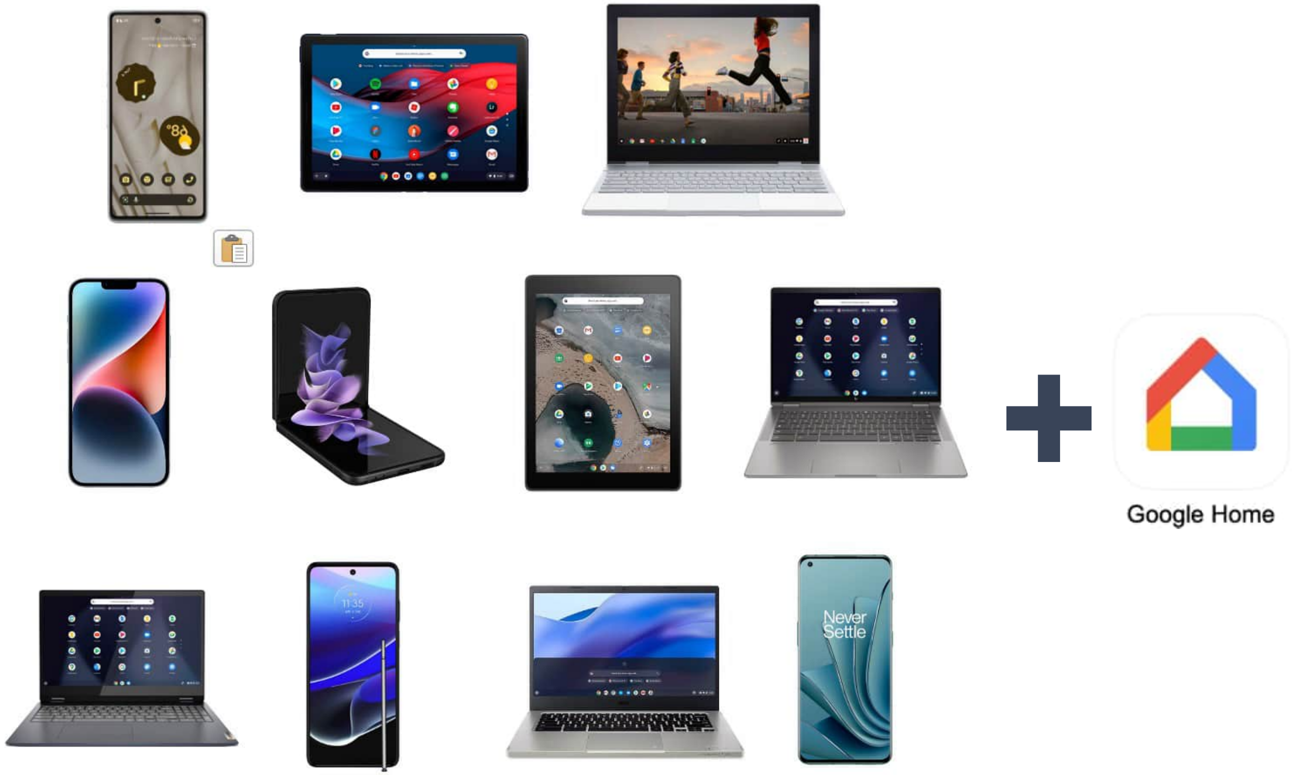
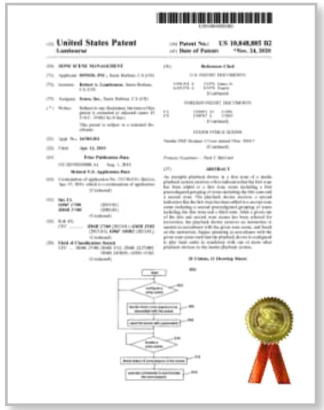
Asserted Claims	Accused Google Controllers	Infringe?
Claims 1, 2, 4, 6, 8, 9, 10, 12, 14, 16 of US 10,469,966	 + Google Home YouTube Music Google Play Music Spotify	?

EXHIBIT A - FILED UNDER SEAL

Assignment – Infringement of '966 Patent

Asserted Claims	Accused Google Controllers	Infringe?
Claims 1, 2, 4, 6, 8, 9, 10, 12, 14, 16 of US 10,469,966		?

Methodology – Infringement of '885 Patent



Sonos Patent Documents

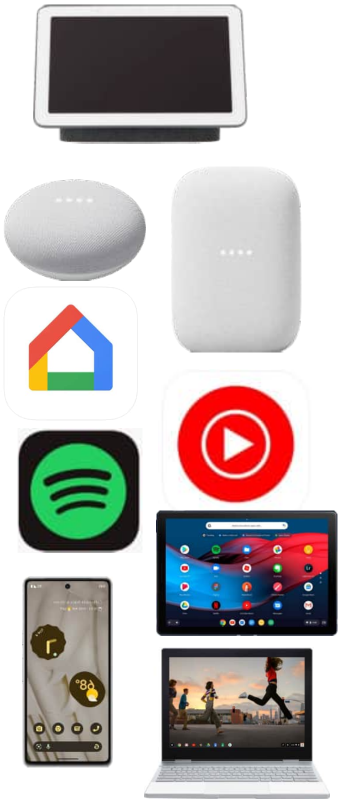
- US 10,848,885
- File History
- Claim Construction Material

Google Documents

- Customer-Facing Literature
- Internal Documents
- Google Source Code

Sworn Testimony & Admissions

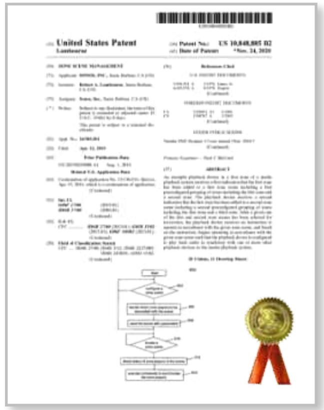
- Kenneth MacKay, Google Senior Software Engineer
- Justin Pedro, Engineer Manager
- Google's Responses to Sonos's Interrogatory Nos. 5 and 13
- Google's Responses to Sonos's Request for Admissions (RFAs) Nos. 1-12



Google System Testing

- Google Nest Hub Display
- Google Home Mini Speaker
- Google Nest Audio Speaker
- Google Pixel 7 + Google Home, Google YouTube Music, and Spotify Apps
- Google Pixelbook + Google Home, YouTube Music, and Spotify Apps
- iPhone 12 Pro + Google Home, YouTube Music, and Spotify Apps

Methodology – Infringement of '966 Patent



Sonos Patent Documents

- US 10,469,966
- File History
- Claim Construction Material

Google Documents

- Customer-Facing Literature
- Internal Documents
- Google Source Code

Sworn Testimony & Admissions

- Kenneth MacKay, Google Senior Software Engineer
- Justin Pedro, Engineer Manager
- Google's Responses to Sonos's Interrogatory Nos. 5 and 13
- Google's Responses to Sonos's Request for Admissions (RFAs) Nos. 1-12

Google System Testing

- Google Pixel 7 + Google Home, Google YouTube Music, and Spotify Apps
- Google Pixelbook + Google Home, YouTube Music, and Spotify Apps
- iPhone 12 Pro + Google Home, YouTube Music, and Spotify Apps
- Google Nest Hub Display
- Google Home Mini Speaker
- Google Nest Audio Speaker

Conclusion – Infringement of '885 Patent

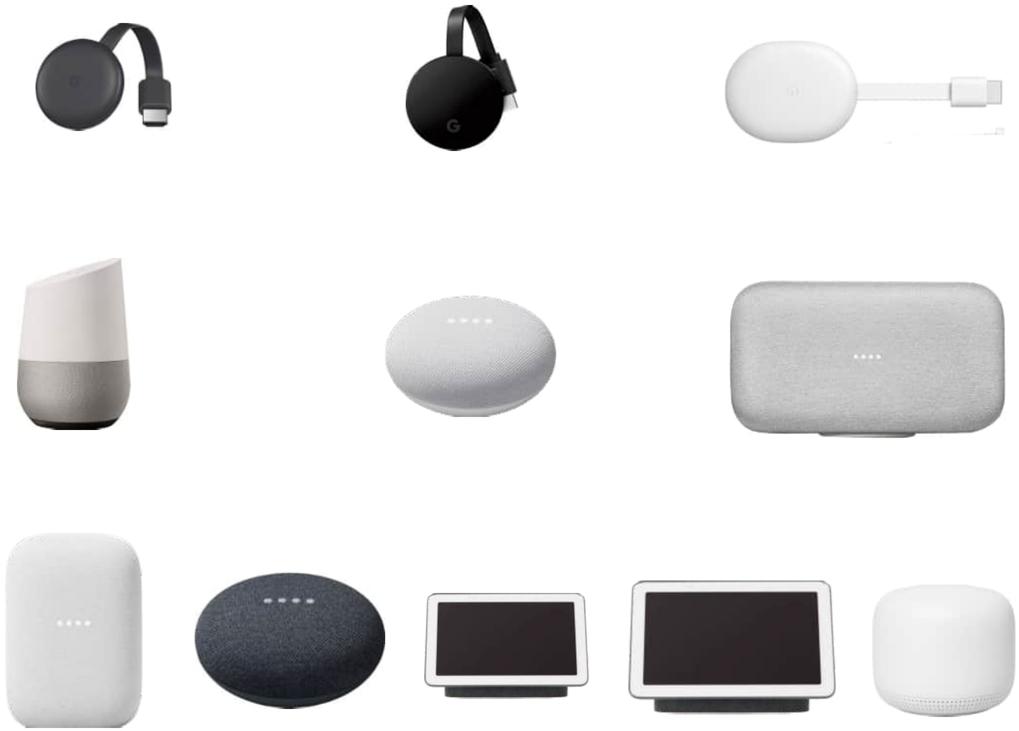
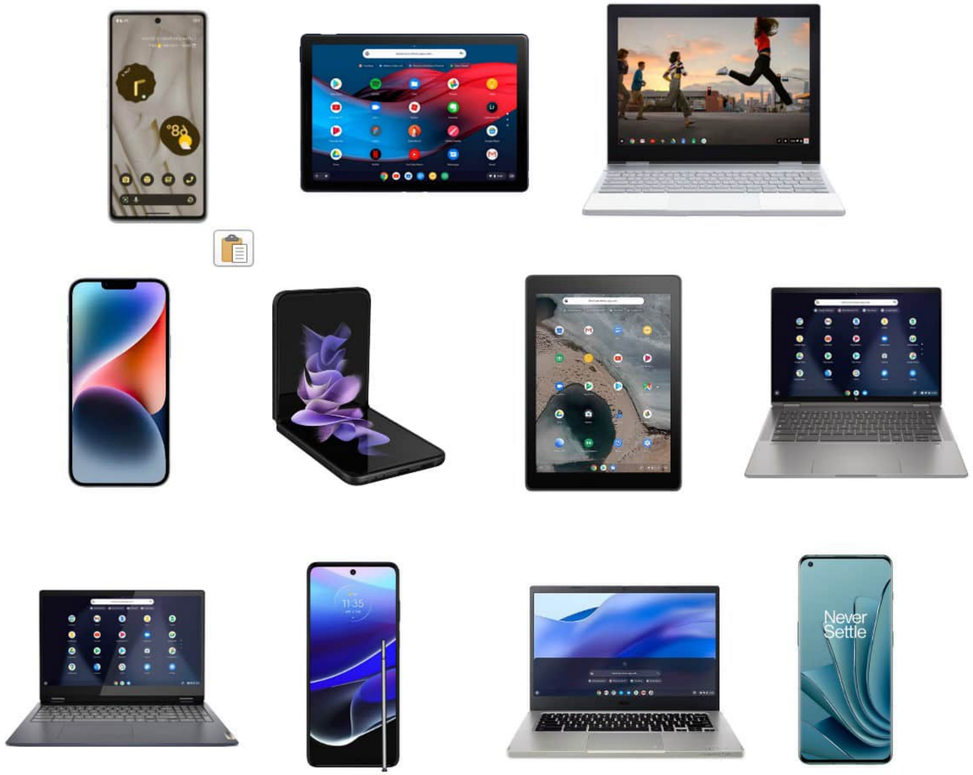
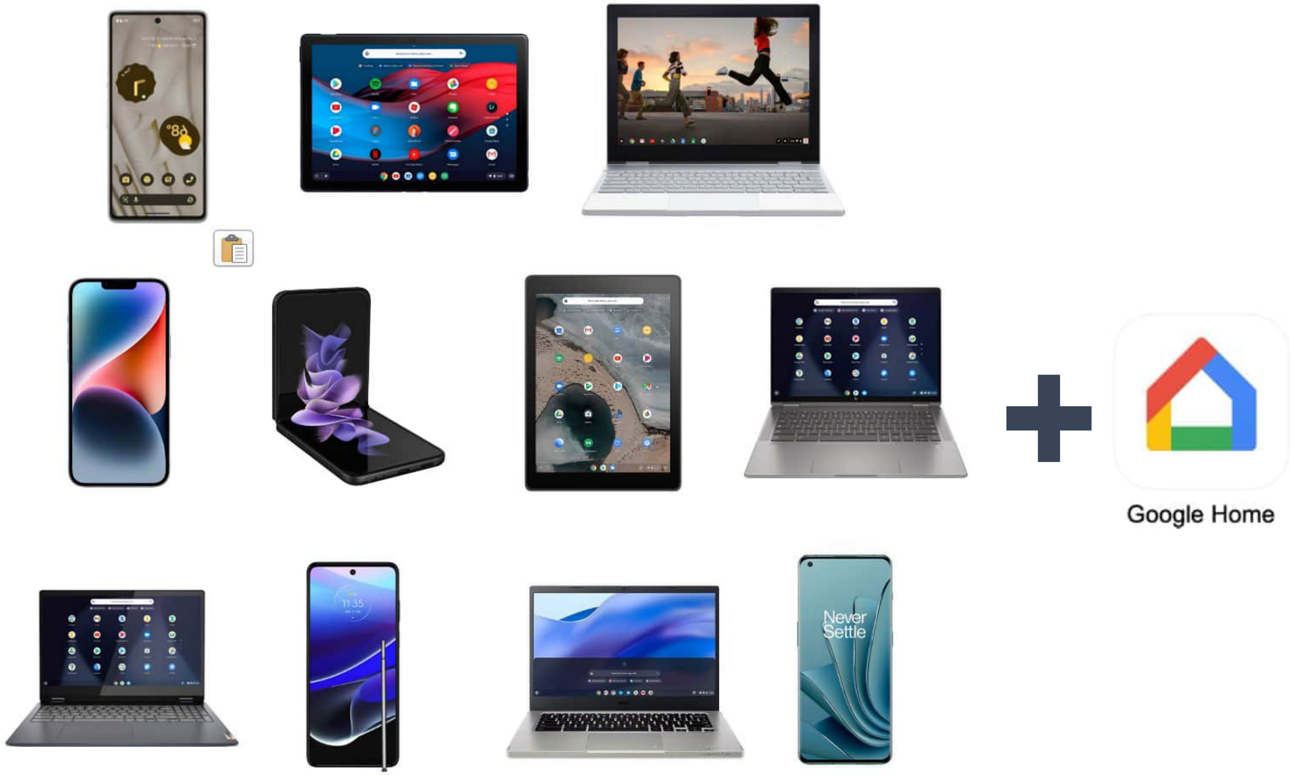
Asserted Claim	Accused Google Products	Infringe?
Claim 1 of US 10,848,885		✓

EXHIBIT A - FILED UNDER SEAL

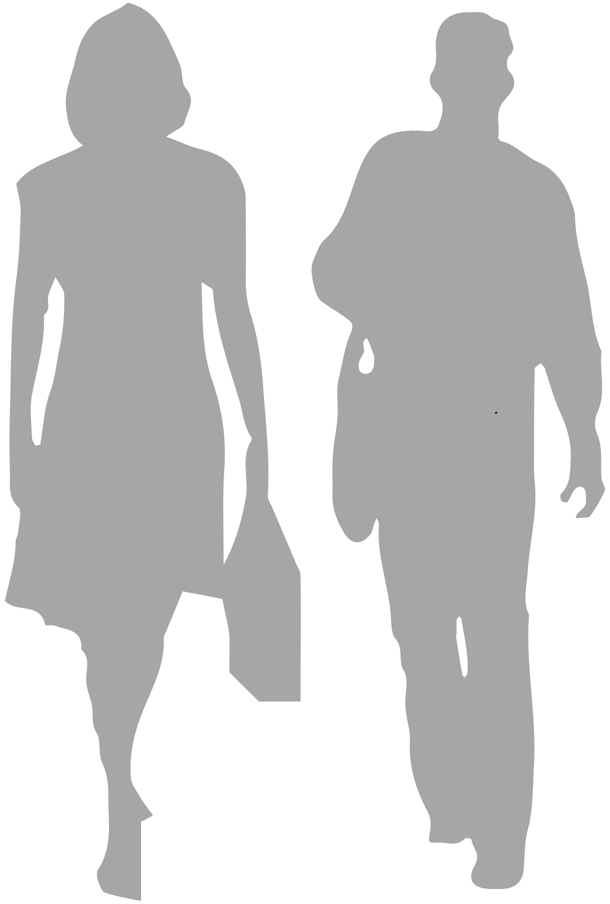
Assignment – Infringement of '966 Patent

Asserted Claims	Accused Google Controllers	Infringe?
Claims 1, 2, 4, 6, 8, 9, 10, 12, 14, 16 of US 10,469,966	 + Google Home YouTube Music Google Play Music Spotify	✓

Assignment – Infringement of '966 Patent

Asserted Claims	Accused Google Controllers	Infringe?
Claims 1, 2, 4, 6, 8, 9, 10, 12, 14, 16 of US 10,469,966	 Never Settle + Google Home	✓

Person of Ordinary Skill in the Art



- Bachelor’s Degree in Computer Science, Computer Engineering, Electrical Engineering, or the equivalent

+

- 2-4 years of work experience in the fields of networking and network-based systems or applications, such as consumer audio systems, or an equivalent level of skill, knowledge, and experience

Parties' Proposed Claim Constructions for '885 Patent

Claim Term	Sonos	Google
"zone player"	Same as "playback device" "a data network device configured to process and output audio"	Same as "playback device" Plain and ordinary meaning, no construction necessary
"data network"	Plain and ordinary meaning, which is "a medium that interconnects devices, enabling them to send digital data packets to and receive digital data packets from each other"	Plain and ordinary meaning, no construction necessary
"network interface"	Plain and ordinary meaning, which is "a physical component of a device that provides an interconnection with a data network"	Plain and ordinary meaning, no construction necessary
"zone scene"	"a previously-saved grouping of zone players that are to be configured for synchronous playback of media when the zone scene is invoked"	"a previously saved grouping of zone players according to a common theme"

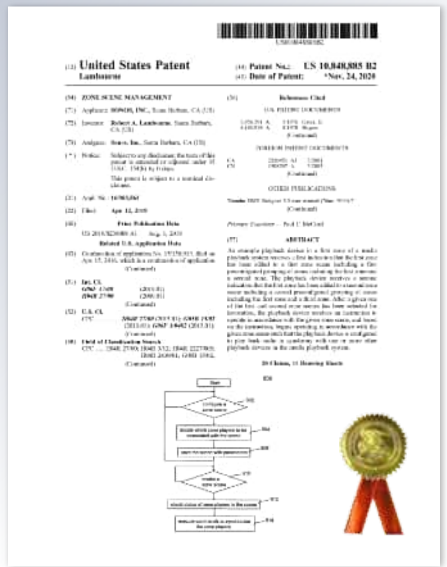
Parties' Proposed Claim Constructions for '966 Patent

Claim Term	Sonos	Google
"zone player"	Same as "playback device" "a data network device configured to process and output audio"	Same as "playback device" Plain and ordinary meaning, no construction necessary
"data network"	Plain and ordinary meaning, which is "a medium that interconnects devices, enabling them to send digital data packets to and receive digital data packets from each other"	Plain and ordinary meaning, no construction necessary
"zone scene"	"a previously-saved grouping of zone players that are to be configured for synchronous playback of media when the zone scene is invoked"	"a previously saved grouping of zone players according to a common theme"

Parties' Proposed Claim Constructions for '966 Patent

Claim Term	Sonos	Google
"zone player"	Same as "playback device" "a data network device configured to process and output audio"	Same as "playback device" Plain and ordinary meaning, no construction necessary
"zone scene"	"a previously-saved grouping of zone players that are to be configured for synchronous playback of media when the zone scene is invoked"	"a previously saved grouping of zone players according to a common theme"

Claim 1 of the ’885 Patent



US 10,848,885

1. A first zone player comprising:

a network interface that is configured to communicatively couple the first zone player to at least one data network;

one or more processors;

a non-transitory computer-readable medium; and

program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

(i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

(ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Infringement of Claim 1 of the '885 Patent

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Infringement of Claim 1 of the '885 Patent

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Infringement of Claim 1 of the '885 Patent

✓	**[1.0]** A first zone player comprising:
	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Infringement of Claim 1 of the '885 Patent

✓	**[1.0]** A first zone player comprising:
	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Infringement of Claim 1 of the '885 Patent

✓	**[1.0]** A first zone player comprising:
✓	**[1.1]** a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Infringement of Claim 1 of the '885 Patent

✓	**[1.0]** A first zone player comprising:
✓	**[1.1]** a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Infringement of Claim 1 of the '885 Patent

✓	**[1.0]** A first zone player comprising:
✓	**[1.1]** a network interface that is configured to communicatively couple the first zone player to at least one data network;
✓	**[1.2]** one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

EXHIBIT A - FILED UNDER SEAL

Infringement of Claim 1 of the '885 Patent

✓	[1.0] A first zone player comprising:
✓	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
✓	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

EXHIBIT A - FILED UNDER SEAL

Infringement of Claim 1 of the '885 Patent

✓	**[1.0]** A first zone player comprising:
✓	**[1.1]** a network interface that is configured to communicatively couple the first zone player to at least one data network;
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✓	**[1.3]** a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Infringement of Claim 1 of the '885 Patent

✓	**[1.0]** A first zone player comprising:
✓	**[1.1]** a network interface that is configured to communicatively couple the first zone player to at least one data network;
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✓	**[1.3]** a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Infringement of Claim 1 of the '885 Patent

✓ **[1.0]** A first zone player comprising:

✓ **[1.1]** a network interface that is configured to communicatively couple the first zone player to at least one data network;

✓ **[1.2]** one or more processors;

✓ **[1.3]** a non-transitory computer-readable medium; and

✓ **[1.4]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

EXHIBIT A - FILED UNDER SEAL

Infringement of Claim 1 of the '885 Patent

✓	[1.0] A first zone player comprising:
✓	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
✓	[1.2] one or more processors;
✓	[1.3] a non-transitory computer-readable medium; and
✓	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Infringement of Claim 1 of the '885 Patent

✓	**[1.0]** A first zone player comprising:
✓	**[1.1]** a network interface that is configured to communicatively couple the first zone player to at least one data network;
✓	**[1.2]** one or more processors;
✓	**[1.3]** a non-transitory computer-readable medium; and
✓	**[1.4]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
✓	**[1.5]** while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

EXHIBIT A - FILED UNDER SEAL

Infringement of Claim 1 of the '885 Patent

✓	[1.0] A first zone player comprising:
✓	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
✓	[1.2] one or more processors;
✓	[1.3] a non-transitory computer-readable medium; and
✓	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
✓	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

EXHIBIT A - FILED UNDER SEAL

Infringement of Claim 1 of the '885 Patent

✓	**[1.0]** A first zone player comprising:
✓	**[1.1]** a network interface that is configured to communicatively couple the first zone player to at least one data network;
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✓	**[1.3]** a non-transitory computer-readable medium; and
✓	**[1.4]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
✓	**[1.5]** while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
✓	**[1.6]** (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

EXHIBIT A - FILED UNDER SEAL

Infringement of Claim 1 of the '885 Patent

✓	**[1.0]** A first zone player comprising:
✓	**[1.1]** a network interface that is configured to communicatively couple the first zone player to at least one data network;
✓	**[1.2]** one or more processors;
✓	**[1.3]** a non-transitory computer-readable medium; and
✓	**[1.4]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
✓	**[1.5]** while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
✓	**[1.6]** (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Infringement of Claim 1 of the '885 Patent

✓	**[1.0]** A first zone player comprising:
✓	**[1.1]** a network interface that is configured to communicatively couple the first zone player to at least one data network;
✓	**[1.2]** one or more processors;
✓	**[1.3]** a non-transitory computer-readable medium; and
✓	**[1.4]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
✓	**[1.5]** while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
✓	**[1.6]** (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
✓	**[1.7]** (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Infringement of Claim 1 of the '885 Patent

✓	**[1.0]** A first zone player comprising:
✓	**[1.1]** a network interface that is configured to communicatively couple the first zone player to at least one data network;
✓	**[1.2]** one or more processors;
✓	**[1.3]** a non-transitory computer-readable medium; and
✓	**[1.4]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
✓	**[1.5]** while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
✓	**[1.6]** (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
✓	**[1.7]** (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

EXHIBIT A - FILED UNDER SEAL

Infringement of Claim 1 of the '885 Patent

✓	**[1.0]** A first zone player comprising:
✓	**[1.1]** a network interface that is configured to communicatively couple the first zone player to at least one data network;
✓	**[1.2]** one or more processors;
✓	**[1.3]** a non-transitory computer-readable medium; and
✓	**[1.4]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
✓	**[1.5]** while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
✓	**[1.6]** (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
✓	**[1.7]** (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
✓	**[1.8]** after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Infringement of Claim 1 of the '885 Patent

✓	**[1.0]** A first zone player comprising:
✓	**[1.1]** a network interface that is configured to communicatively couple the first zone player to at least one data network;
✓	**[1.2]** one or more processors;
✓	**[1.3]** a non-transitory computer-readable medium; and
✓	**[1.4]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
✓	**[1.5]** while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
✓	**[1.6]** (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
✓	**[1.7]** (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
✓	**[1.8]** after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Infringement of Claim 1 of the '885 Patent

✓	**[1.0]** A first zone player comprising:
✓	**[1.1]** a network interface that is configured to communicatively couple the first zone player to at least one data network;
✓	**[1.2]** one or more processors;
✓	**[1.3]** a non-transitory computer-readable medium; and
✓	**[1.4]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
✓	**[1.5]** while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
✓	**[1.6]** (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
✓	**[1.7]** (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
✓	**[1.8]** after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
✓	**[1.9]** after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Infringement of Claim 1 of the '885 Patent

✓	**[1.0]** A first zone player comprising:
✓	**[1.1]** a network interface that is configured to communicatively couple the first zone player to at least one data network;
✓	**[1.2]** one or more processors;
✓	**[1.3]** a non-transitory computer-readable medium; and
✓	**[1.4]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
✓	**[1.5]** while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
✓	**[1.6]** (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
✓	**[1.7]** (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
✓	**[1.8]** after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
✓	**[1.9]** after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

EXHIBIT A - FILED UNDER SEAL

Infringement of Claim 1 of the '885 Patent

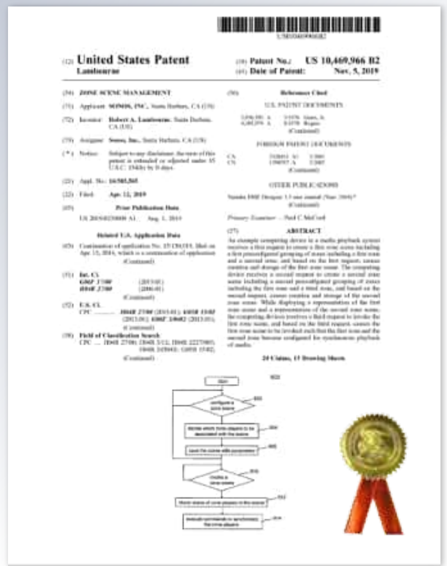
✓	**[1.0]** A first zone player comprising:
✓	**[1.1]** a network interface that is configured to communicatively couple the first zone player to at least one data network;
✓	**[1.2]** one or more processors;
✓	**[1.3]** a non-transitory computer-readable medium; and
✓	**[1.4]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
✓	**[1.5]** while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
✓	**[1.6]** (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
✓	**[1.7]** (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
✓	**[1.8]** after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
✓	**[1.9]** after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
✓	**[1.10]** based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

EXHIBIT A - FILED UNDER SEAL

Infringement of Claim 1 of the '885 Patent

✓	**[1.0]** A first zone player comprising:
✓	**[1.1]** a network interface that is configured to communicatively couple the first zone player to at least one data network;
✓	**[1.2]** one or more processors;
✓	**[1.3]** a non-transitory computer-readable medium; and
✓	**[1.4]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
✓	**[1.5]** while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
✓	**[1.6]** (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
✓	**[1.7]** (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
✓	**[1.8]** after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
✓	**[1.9]** after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
✓	**[1.10]** based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Claim 1 of the ’966 Patent



US 10,469,966

1. A computing device comprising: one or more processors;

a non-transitory computer-readable medium; and program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;

displaying a representation of the first zone scene and a representation of the second zone scene; and while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Infringement of Claim 1 of the '966 Patent

[1.0] A computing device comprising:

[1.1] one or more processors;

[1.2] a non-transitory computer-readable medium; and;

[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;

[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and

[1.8] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

[1.10] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Infringement of Claim 1 of the '966 Patent

[1.0] A computing device comprising:

[1.1] one or more processors;

[1.2] a non-transitory computer-readable medium; and;

[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;

[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and

[1.8] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

[1.10] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Infringement of Claim 1 of the '966 Patent

✓	**[1.0]** A computing device comprising:
	[1.1] one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
	[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
	[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.8] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.10] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

EXHIBIT A - FILED UNDER SEAL

Infringement of Claim 1 of the '966 Patent

✓	**[1.0]** A computing device comprising:
✓	**[1.1]** one or more processors;
	[1.2] a non-transitory computer-readable medium; and;
	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
	[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
	[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.8] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.10] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Infringement of Claim 1 of the '966 Patent

✓ **[1.0]** A computing device comprising:

✓ **[1.1]** one or more processors;

✓ **[1.2]** a non-transitory computer-readable medium; and;

[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;

[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and

[1.8] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

[1.10] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

EXHIBIT A - FILED UNDER SEAL

Infringement of Claim 1 of the '966 Patent

✓	**[1.0]** A computing device comprising:
✓	**[1.1]** one or more processors;
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✓	**[1.3]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
	[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
	[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.8] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.10] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Infringement of Claim 1 of the '966 Patent

✓	[1.0] A computing device comprising:
✓	[1.1] one or more processors;
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✓	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
	[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
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	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.8] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.10] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Infringement of Claim 1 of the '966 Patent

✓	**[1.0]** A computing device comprising:
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✓	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
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	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.8] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.10] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Infringement of Claim 1 of the '966 Patent

✓	[1.0] A computing device comprising:
✓	[1.1] one or more processors;
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✓	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
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	[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.8] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.10] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Infringement of Claim 1 of the '966 Patent

✓	**[1.0]** A computing device comprising:
✓	**[1.1]** one or more processors;
✓	**[1.2]** a non-transitory computer-readable medium; and;
✓	**[1.3]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✓	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
	[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.8] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.10] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

EXHIBIT A - FILED UNDER SEAL

Infringement of Claim 1 of the '966 Patent

✓	**[1.0]** A computing device comprising:
✓	**[1.1]** one or more processors;
✓	**[1.2]** a non-transitory computer-readable medium; and;
✓	**[1.3]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✓	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
	[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.8] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.10] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Infringement of Claim 1 of the '966 Patent

✓	**[1.0]** A computing device comprising:
✓	**[1.1]** one or more processors;
✓	**[1.2]** a non-transitory computer-readable medium; and;
✓	**[1.3]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✓	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✓	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
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	[1.8] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.10] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Infringement of Claim 1 of the '966 Patent

✓	**[1.0]** A computing device comprising:
✓	**[1.1]** one or more processors;
✓	**[1.2]** a non-transitory computer-readable medium; and;
✓	**[1.3]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✓	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✓	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.8] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.10] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Infringement of Claim 1 of the '966 Patent

✓	[1.0] A computing device comprising:
✓	[1.1] one or more processors;
✓	[1.2] a non-transitory computer-readable medium; and;
✓	[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✓	[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✓	[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✓	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
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	[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.8] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.10] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Infringement of Claim 1 of the '966 Patent

✓	**[1.0]** A computing device comprising:
✓	**[1.1]** one or more processors;
✓	**[1.2]** a non-transitory computer-readable medium; and;
✓	**[1.3]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✓	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
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Infringement of Claim 1 of the '966 Patent

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✓	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
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Infringement of Claim 1 of the '966 Patent

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Infringement of Claim 1 of the '966 Patent

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✓	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
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✓	**[1.9]** displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.8] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.10] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Infringement of Claim 1 of the '966 Patent

✓	**[1.0]** A computing device comprising:
✓	**[1.1]** one or more processors;
✓	**[1.2]** a non-transitory computer-readable medium; and;
✓	**[1.3]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✓	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✓	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✓	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✓	**[1.8]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✓	**[1.9]** displaying a representation of the first zone scene and a representation of the second zone scene; and
	[1.8] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.10] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

EXHIBIT A - FILED UNDER SEAL

Infringement of Claim 1 of the '966 Patent

✓	**[1.0]** A computing device comprising:
✓	**[1.1]** one or more processors;
✓	**[1.2]** a non-transitory computer-readable medium; and;
✓	**[1.3]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✓	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✓	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✓	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✓	**[1.8]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✓	**[1.9]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✓	**[1.8]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.10] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Infringement of Claim 1 of the '966 Patent

✓	**[1.0]** A computing device comprising:
✓	**[1.1]** one or more processors;
✓	**[1.2]** a non-transitory computer-readable medium; and;
✓	**[1.3]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✓	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✓	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✓	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✓	**[1.8]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✓	**[1.9]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✓	**[1.8]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[1.10] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

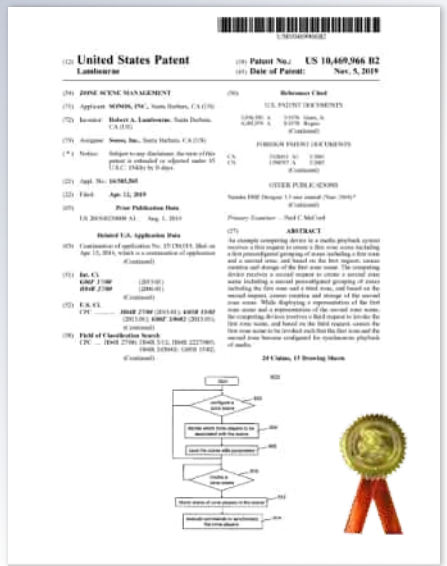
Infringement of Claim 1 of the '966 Patent

✓	**[1.0]** A computing device comprising:
✓	**[1.1]** one or more processors;
✓	**[1.2]** a non-transitory computer-readable medium; and;
✓	**[1.3]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✓	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✓	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✓	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✓	**[1.8]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✓	**[1.9]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✓	**[1.8]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
✓	**[1.10]** based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Infringement of Claim 1 of the '966 Patent

✓	**[1.0]** A computing device comprising:
✓	**[1.1]** one or more processors;
✓	**[1.2]** a non-transitory computer-readable medium; and;
✓	**[1.3]** program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	**[1.4]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✓	**[1.5]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✓	**[1.6]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✓	**[1.7]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✓	**[1.8]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✓	**[1.9]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✓	**[1.8]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
✓	**[1.10]** based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Claim 2 of the ’966 Patent



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2. The computing device of claim **1**, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and

based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Infringement of Claim 2 of the '966 Patent

	[2.0] The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[2.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[2.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Infringement of Claim 2 of the '966 Patent

	[2.0] The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[2.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[2.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Infringement of Claim 2 of the '966 Patent

✓	**[2.0]** The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[2.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[2.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Infringement of Claim 2 of the '966 Patent

✓	**[2.0]** The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[2.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[2.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

EXHIBIT A - FILED UNDER SEAL

Infringement of Claim 2 of the '966 Patent

✓	**[2.0]** The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	**[2.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[2.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Infringement of Claim 2 of the '966 Patent

✓	**[2.0]** The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	**[2.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[2.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

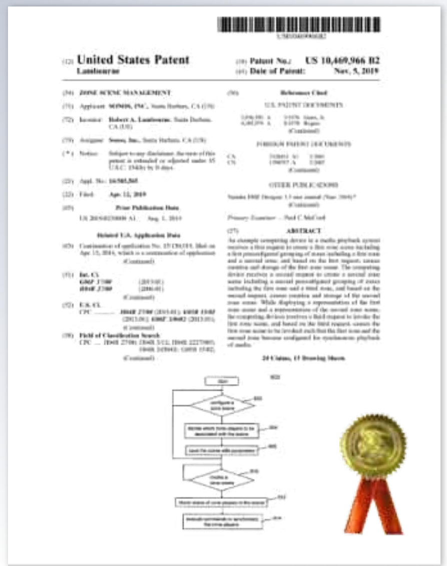
Infringement of Claim 2 of the '966 Patent

✓	**[2.0]** The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	**[2.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
✓	**[2.2]** based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Infringement of Claim 2 of the '966 Patent

✓	**[2.0]** The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	**[2.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
✓	**[2.2]** based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Claim 3 of the ’966 Patent



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3. The computing device of claim **1**, wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.

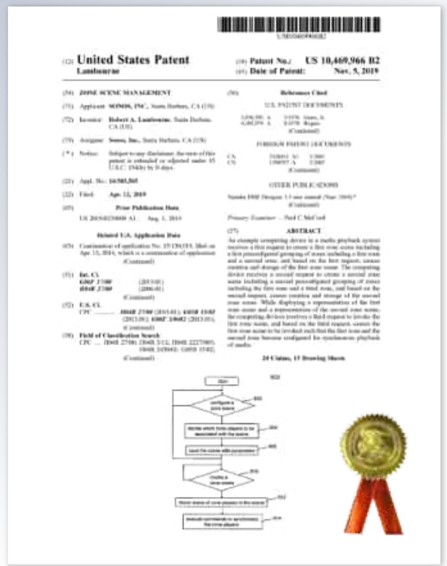
Infringement of Claim 3 of the '966 Patent

	3. The computing device of claim 1,
	wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.

Infringement of Claim 3 of the '966 Patent

✓	**3.** The computing device of claim 1,
✓	wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.

Claim 4 of the ’966 Patent



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4. The computing device of claim **3**, wherein the location other than the computing device comprises a zone player of the first predefined grouping of zone players.

Infringement of Claim 4 of the '966 Patent

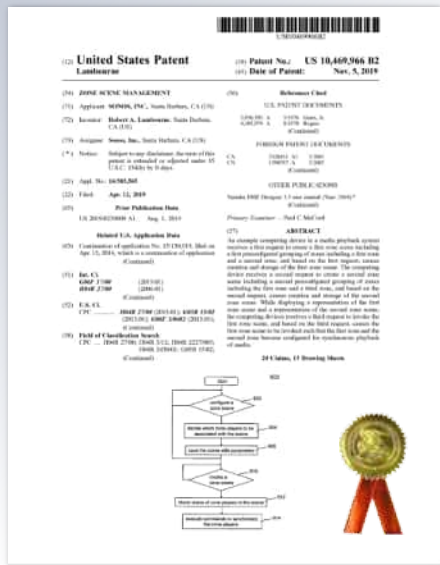
	4. The computing device of claim 3,
	wherein the location other than the computing device comprises a zone player of the first predetermined grouping of zone players.

Infringement of Claim 4 of the '966 Patent

✓	**4.** The computing device of claim 3,
✓	wherein the location other than the computing device comprises a zone player of the first predetermined grouping of zone players.

EXHIBIT A - FILED UNDER SEAL

Claim 6 of the ’966 Patent



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6. The computing device of claim **1**, wherein the first predefined grouping of zone players does not include the third zone player, and wherein the second predefined grouping of zone players does not include the second zone player.

Infringement of Claim 6 of the '966 Patent

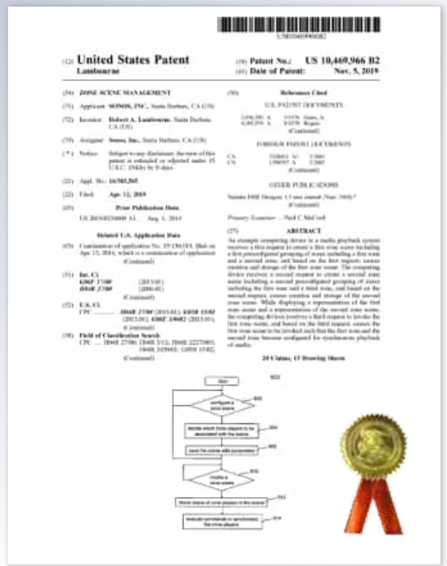
	6. The computing device of claim 1,
	wherein the first predefined grouping of zone players does not include the third zone player, and wherein the second predefined grouping of zone players does not include the second zone player.

EXHIBIT A - FILED UNDER SEAL

Infringement of Claim 6 of the '966 Patent

✓	**6.** The computing device of claim 1,
✓	wherein the first predefined grouping of zone players does not include the third zone player, and wherein the second predefined grouping of zone players does not include the second zone player.

Claim 8 of the ’966 Patent



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8. The computing device of claim **1**, wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface.

EXHIBIT A - FILED UNDER SEAL

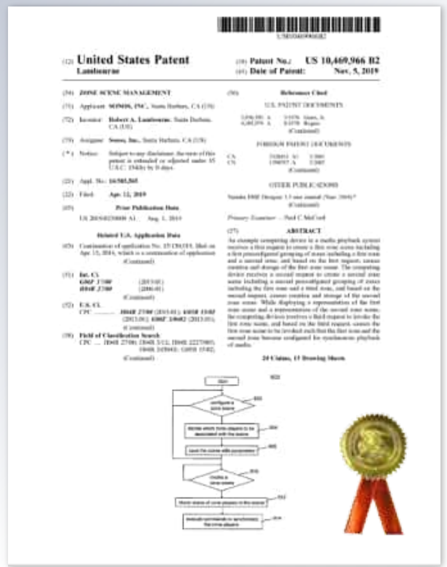
Infringement of Claim 8 of the '966 Patent

	8. The computing device of claim 1,
	wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface.

Infringement of Claim 8 of the '966 Patent

✓	**8.** The computing device of claim 1,
✓	wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface.

Claim 9 of the ’966 Patent



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9. A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:

while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;

displaying a representation of the first zone scene and a representation of the second zone scene; and

while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Infringement of Claim 9 of the '966 Patent

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
	[9.1] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
	[9.2] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
	[9.3] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[9.4] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[9.5] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Infringement of Claim 9 of the '966 Patent

	[9.0] A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
	[9.1] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
	[9.2] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
	[9.3] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[9.4] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
	[9.5] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
	[9.6] displaying a representation of the first zone scene and a representation of the second zone scene; and
	[9.7] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

EXHIBIT A - FILED UNDER SEAL

Infringement of Claim 9 of the '966 Patent

✓	**[9.0]** A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
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	[9.3] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
	[9.4] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
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✓	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✓	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✓	**[9.5]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✓	**[9.6]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✓	**[9.7]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
	[9.8] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

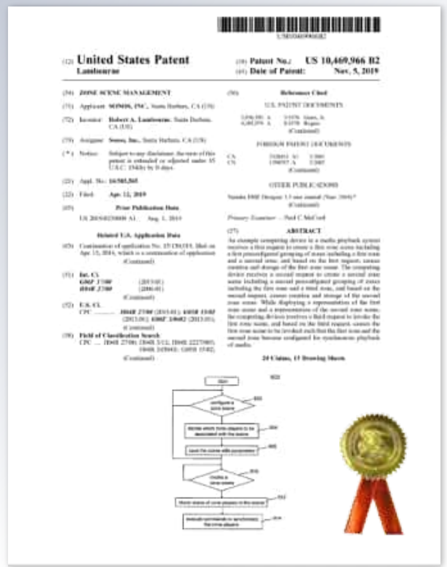
Infringement of Claim 9 of the '966 Patent

✓	**[9.0]** A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✓	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✓	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✓	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✓	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✓	**[9.5]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✓	**[9.6]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✓	**[9.7]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
✓	**[9.8]** based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Infringement of Claim 9 of the '966 Patent

✓	**[9.0]** A non-transitory computer-readable medium, wherein the non-transitory computer-readable medium is provisioned with program instructions that are executable to cause a computing device to perform functions comprising:
✓	**[9.1]** while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
✓	**[9.2]** receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
✓	**[9.3]** based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
✓	**[9.4]** receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
✓	**[9.5]** based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
✓	**[9.6]** displaying a representation of the first zone scene and a representation of the second zone scene; and
✓	**[9.7]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
✓	**[9.8]** based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

Claim 10 of the '966 Patent



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10. The non-transitory computer-readable medium of claim **9**, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and

based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

EXHIBIT A - FILED UNDER SEAL

Infringement of Claim 10 of the '966 Patent

	[10.0] The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[10.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[10.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Infringement of Claim 10 of the '966 Patent

[10.0] The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

[10.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and

[10.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Infringement of Claim 10 of the '966 Patent

✓	**[10.0]** The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[10.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[10.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Infringement of Claim 10 of the '966 Patent

✓	**[10.0]** The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
	[10.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[10.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Infringement of Claim 10 of the '966 Patent

✓	**[10.0]** The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	**[10.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[10.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

EXHIBIT A - FILED UNDER SEAL

Infringement of Claim 10 of the '966 Patent

✓	**[10.0]** The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	**[10.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
	[10.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

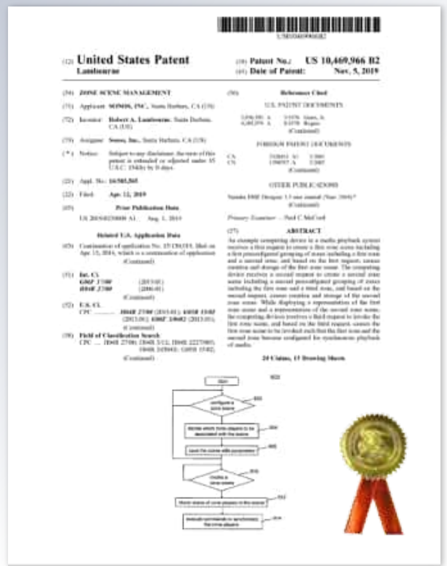
Infringement of Claim 10 of the '966 Patent

✓	**[10.0]** The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	**[10.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
✓	**[10.2]** based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Infringement of Claim 10 of the '966 Patent

✓	**[10.0]** The non-transitory computer-readable medium of claim 9, wherein the non-transitory computer-readable medium is also provisioned with program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
✓	**[10.1]** while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and
✓	**[10.2]** based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

Claim 11 of the ’966 Patent



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11. The non-transitory computer-readable medium of claim **9**, wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.

EXHIBIT A - FILED UNDER SEAL

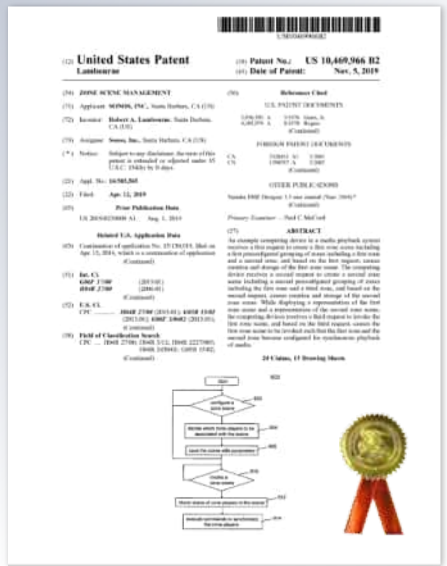
Infringement of Claim 11 of the '966 Patent

	11. The non-transitory computer-readable medium of claim 9,
	wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.

Infringement of Claim 11 of the '966 Patent

✓	**11.** The non-transitory computer-readable medium of claim 9,
✓	wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.

Claim 12 of the ’966 Patent



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12. The non-transitory computer-readable medium of claim **11**, wherein the location other than the computing device comprises a zone player of the first predefined grouping of zone players.

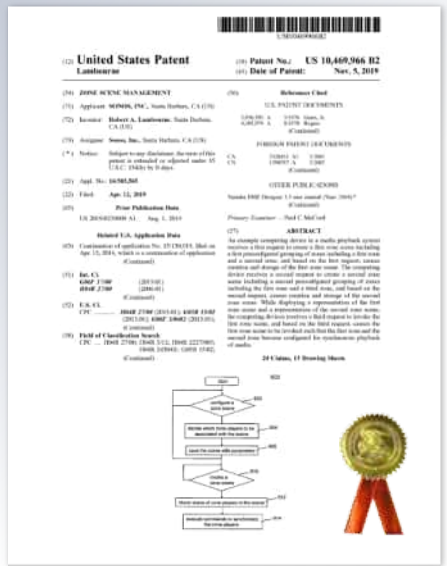
Infringement of Claim 12 of the '966 Patent

	12. The non-transitory computer-readable medium of claim 11,
	wherein the location other than the computing device comprises a zone player of the first predefined grouping of zone players.

Infringement of Claim 12 of the '966 Patent

✓	**12.** The non-transitory computer-readable medium of claim 11,
✓	wherein the location other than the computing device comprises a zone player of the first predefined grouping of zone players.

Claim 14 of the ’966 Patent



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14. The non-transitory computer-readable medium of claim **9**, wherein the first predefined grouping of zone players does not include the third zone player, and wherein the second predefined grouping of zone players does not include the second zone player.

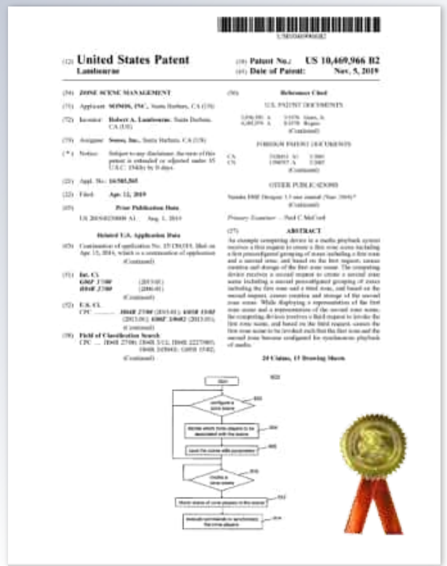
Infringement of Claim 14 of the '966 Patent

	14. The non-transitory computer-readable medium of claim 9,
	wherein the first predefined grouping of zone players does not include the third zone player, and wherein the second predefined grouping of zone players does not include the second zone player.

Infringement of Claim 14 of the '966 Patent

✓	**14.** The non-transitory computer-readable medium of claim 9,
✓	wherein the first predefined grouping of zone players does not include the third zone player, and wherein the second predefined grouping of zone players does not include the second zone player.

Claim 16 of the ’966 Patent



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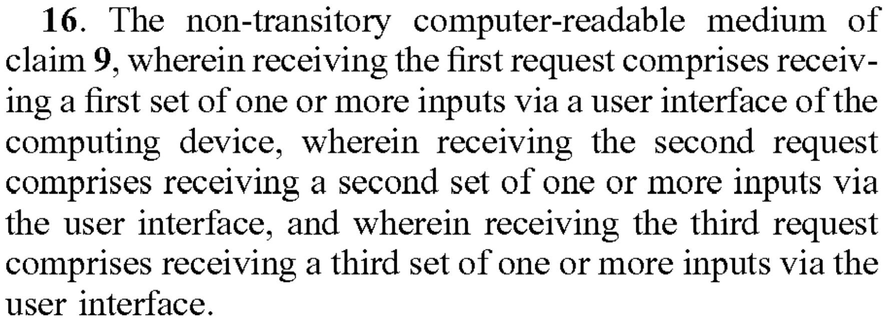


16. The non-transitory computer-readable medium of claim **9**, wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface.

Infringement of Claim 16 of the '966 Patent

	16. The non-transitory computer-readable medium of claim 9,
	wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface.

Infringement of Claim 16 of the '966 Patent

✓	**16.** The non-transitory computer-readable medium of claim 9,
✓	wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface.

EXHIBIT A - FILED UNDER SEAL

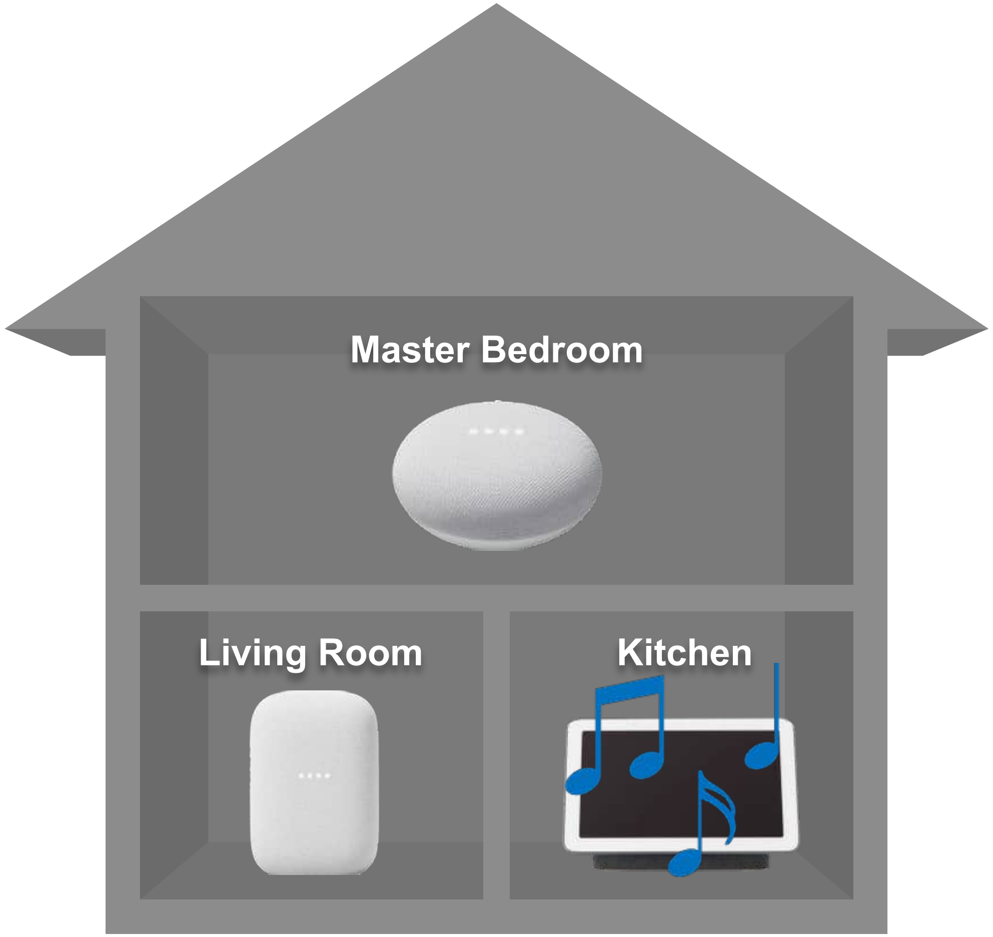
Creating / Saving a First Speaker Group

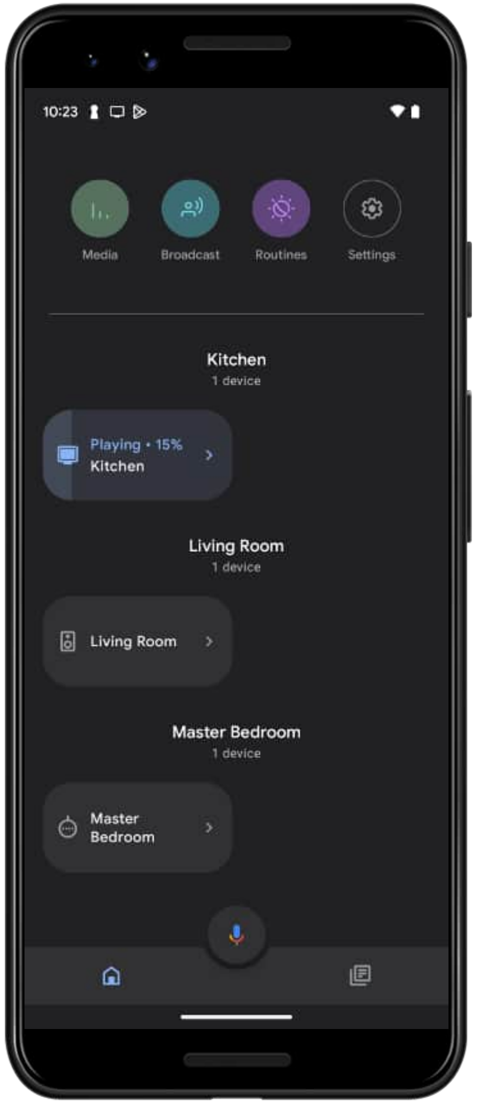
Google Home App (Active Playback on Kitchen)

Creating / Saving a First Speaker Group

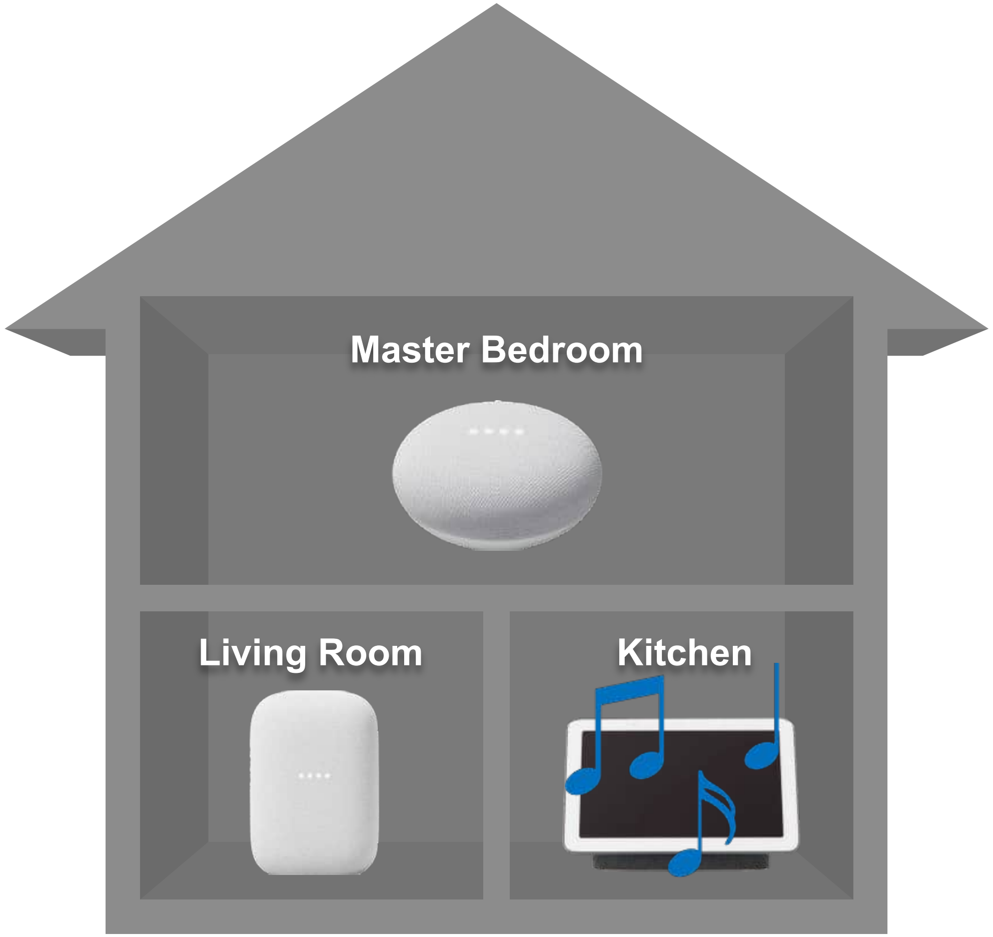
- Google’s Third Supplemental Response to Sonos’s Interrogatory No. 13
- Testimony from Google’s corporate designees
  - Kenneth MacKay
  - Justin Pedro
- Google Documents
  - “Create and manage speaker groups” [GOOG-SONOSWDTX-00007068-74]
  - “Group your Google Assistance device” [SONOS-SVG2-00055660-61]
  - “Multizone – cast_shell integration” [GOOG-SONOSWDTX-00048962-66]
  - “Cast for Audio” Initial UX Spec [GOOG-SONOSNDCA-00056732-77]
  - “Multizone Audio Design” [GOOG-SONOSWDTX-00040384-96]
- Google’s Source Code

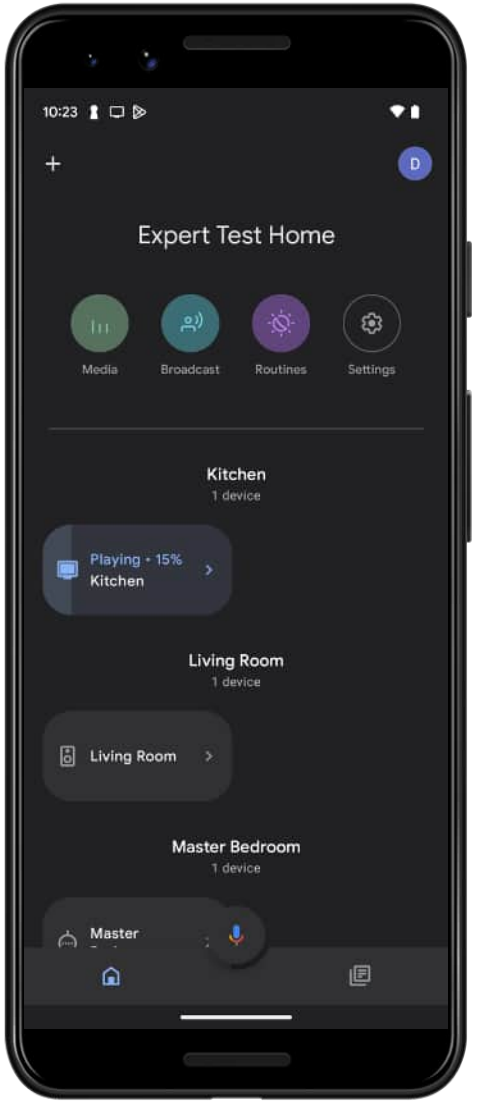
Creating / Saving a First Speaker Group


Master Bedroom
Living Room
Kitchen


10:23
Media
Broadcast
Routines
Settings
Kitchen
1 device
Playing • 15%
Kitchen
Living Room
1 device
Living Room
Master Bedroom
1 device
Master Bedroom

Creating / Saving a First Speaker Group


Master Bedroom
Living Room
Kitchen


10:23
+
D
Media
Broadcast
Routines
Settings

Expert Test Home

Kitchen
1 device

Playing • 15%
Kitchen

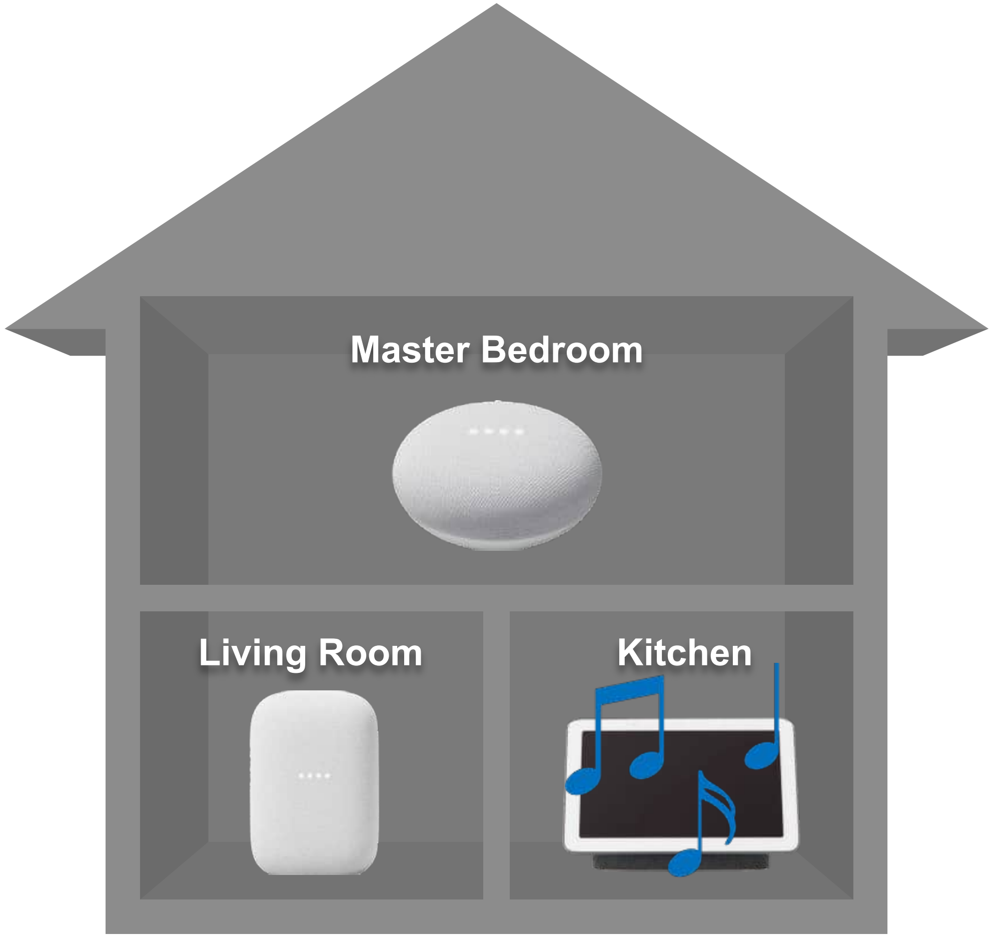
Living Room
1 device

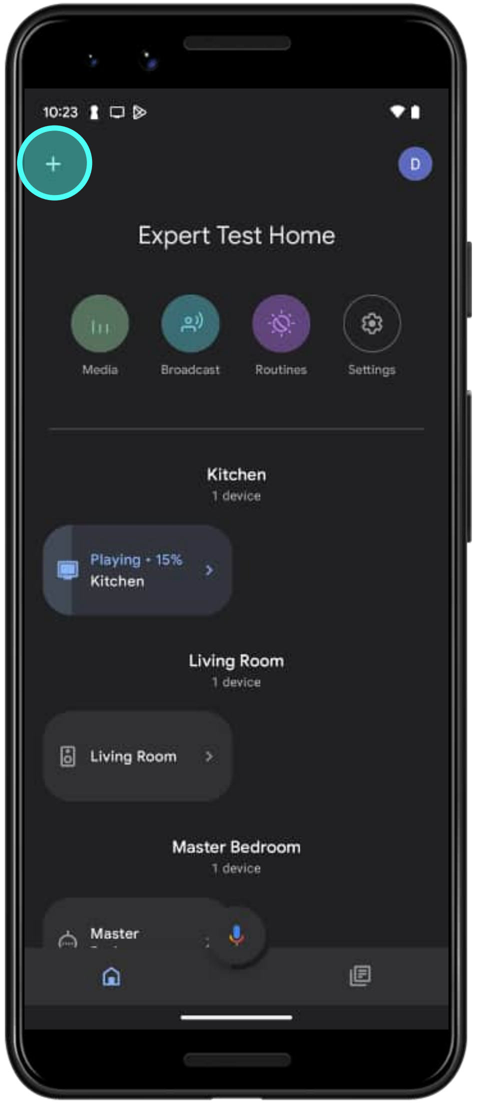
Living Room

Master Bedroom
1 device

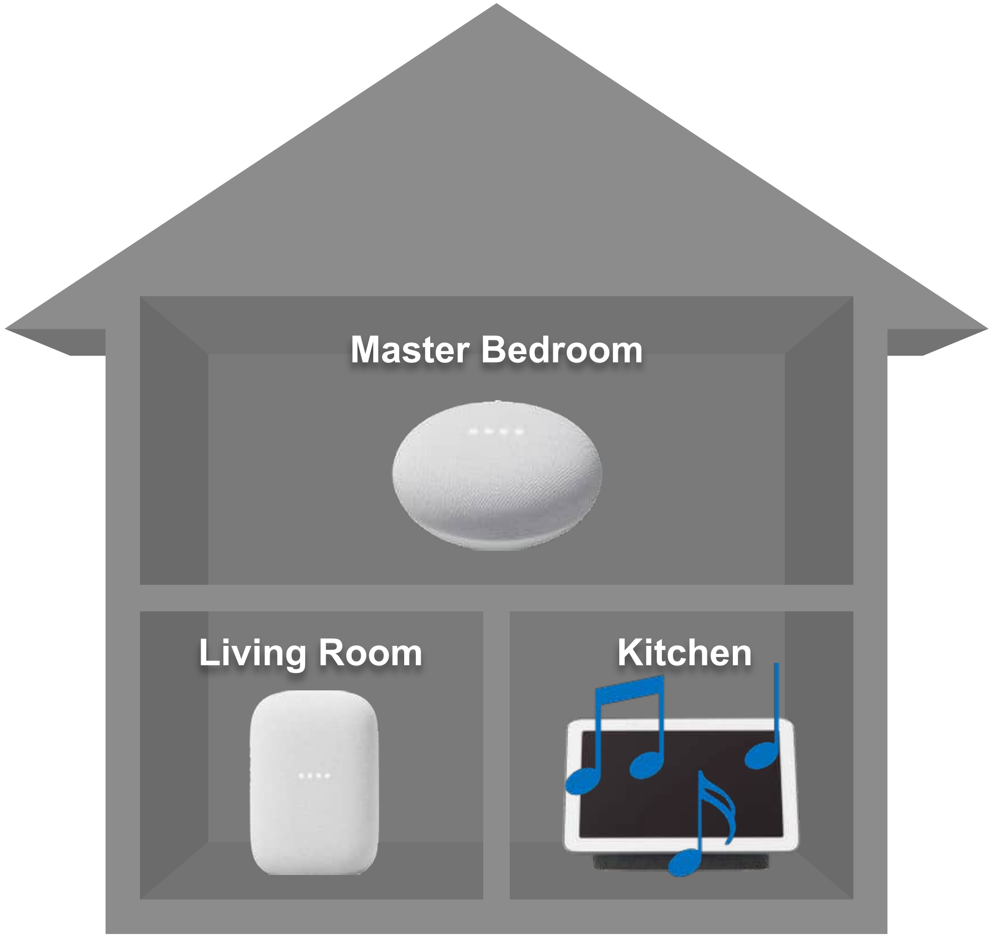
Master

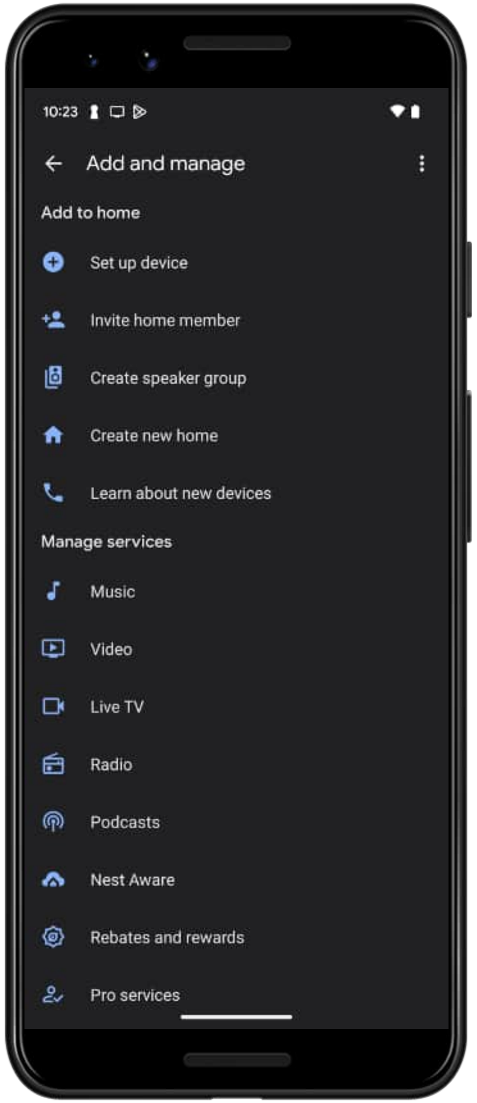
Creating / Saving a First Speaker Group


Master Bedroom
Living Room
Kitchen


10:23
+
D
Expert Test Home
Media
Broadcast
Routines
Settings
Kitchen
1 device
Playing • 15%
Kitchen
Living Room
1 device
Living Room
Master Bedroom
1 device
Master

Creating / Saving a First Speaker Group


Master Bedroom
Living Room
Kitchen



Add and manage

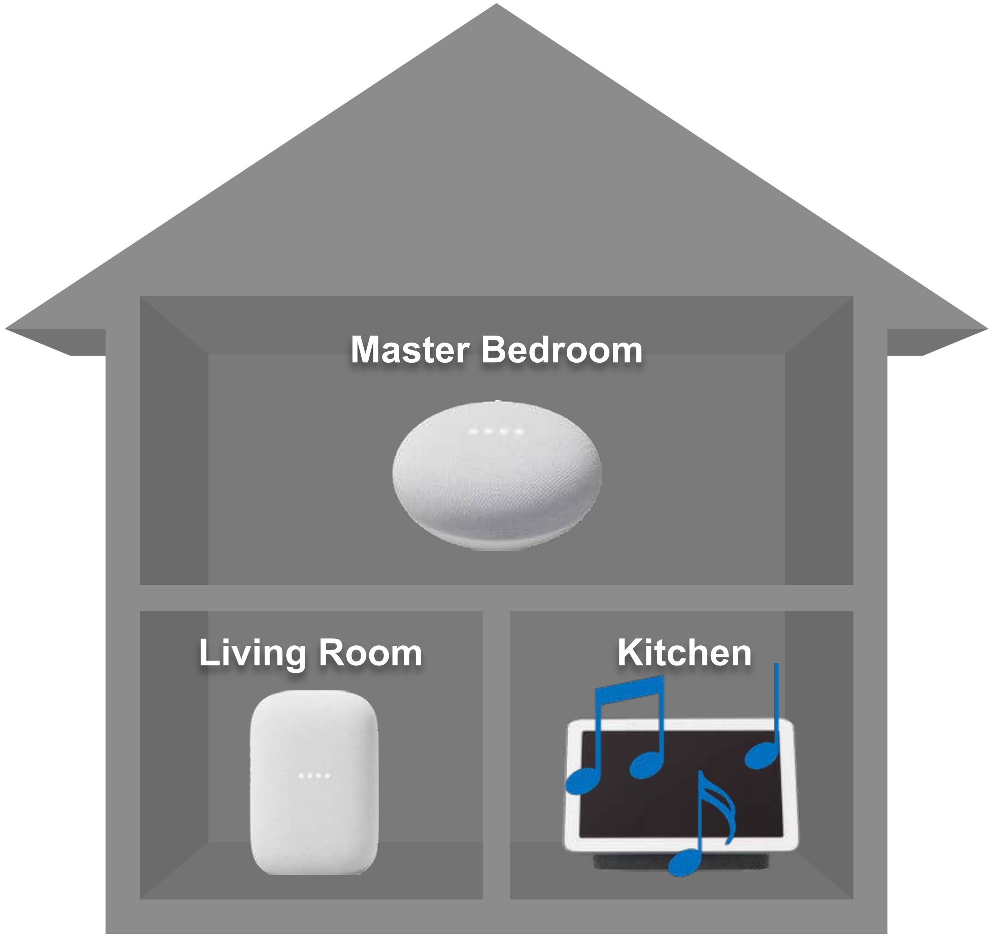
Add to home

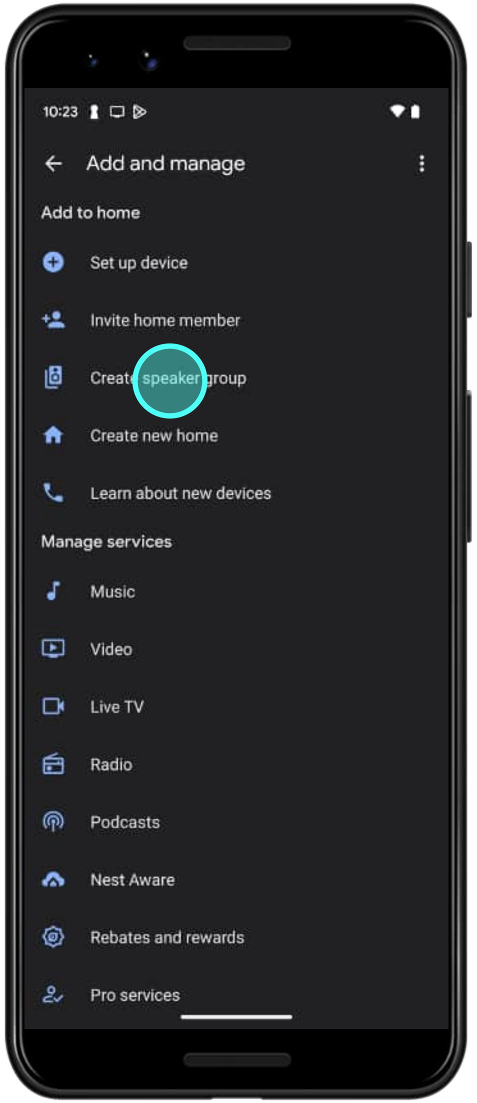
- Set up device
- Invite home member
- Create speaker group
- Create new home
- Learn about new devices

Manage services

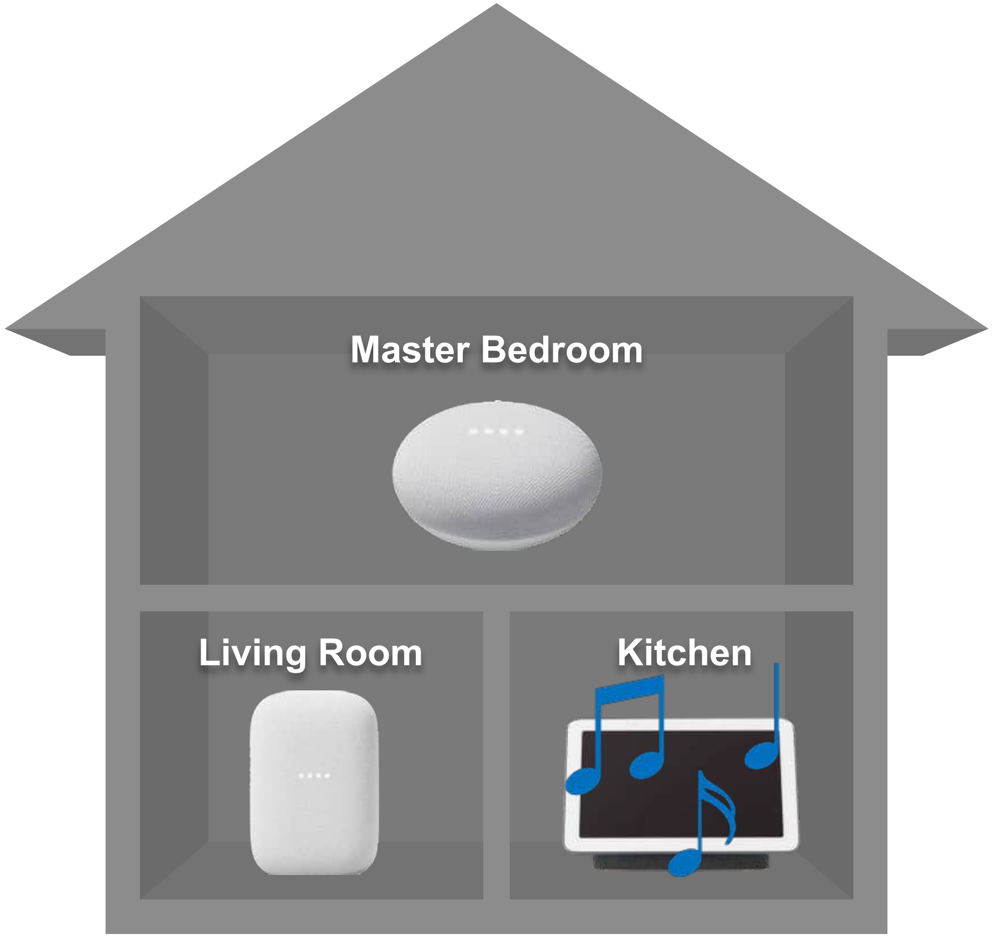
- Music
- Video
- Live TV
- Radio
- Podcasts
- Nest Aware
- Rebates and rewards
- Pro services

Creating / Saving a First Speaker Group

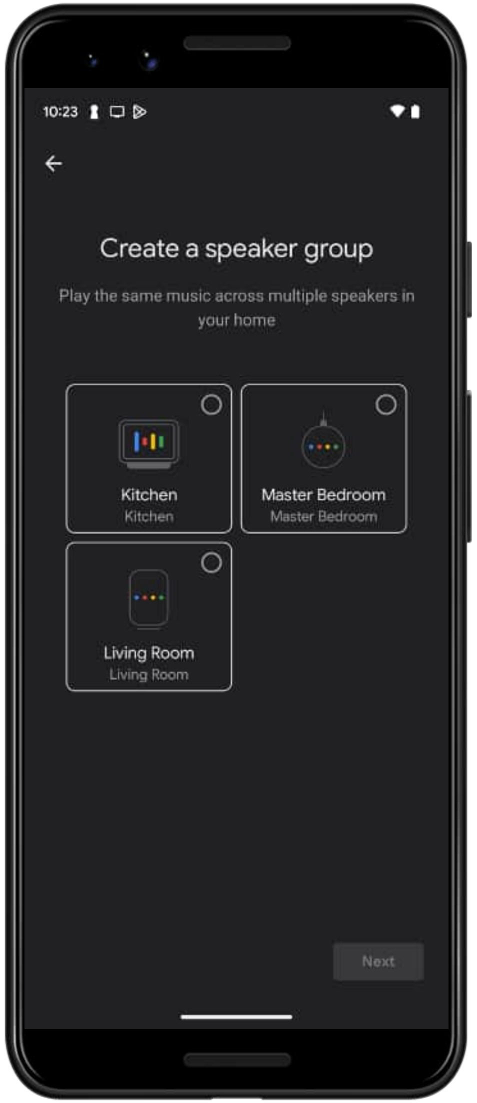

Master Bedroom
Living Room
Kitchen


10:23
Add and manage
Add to home
Set up device
Invite home member
Create speaker group
Create new home
Learn about new devices
Manage services
Music
Video
Live TV
Radio
Podcasts
Nest Aware
Rebates and rewards
Pro services

Creating / Saving a First Speaker Group



Master Bedroom
Living Room
Kitchen



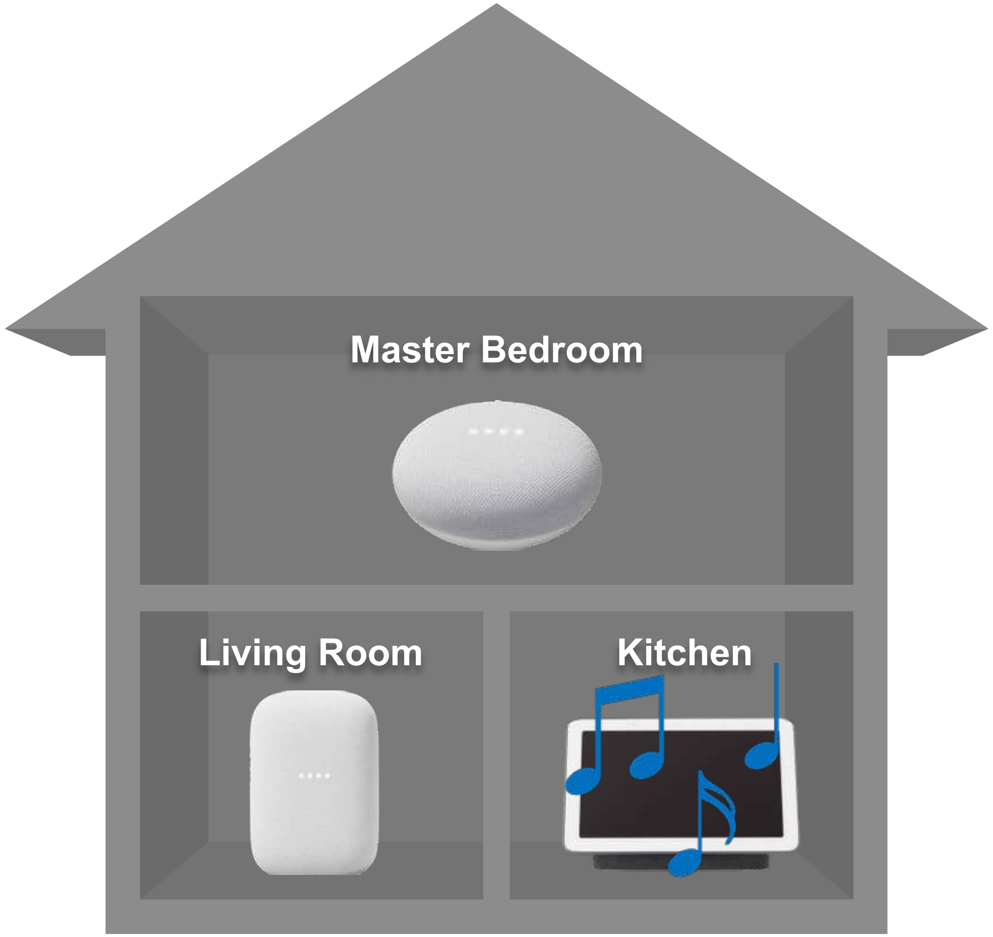
10:23

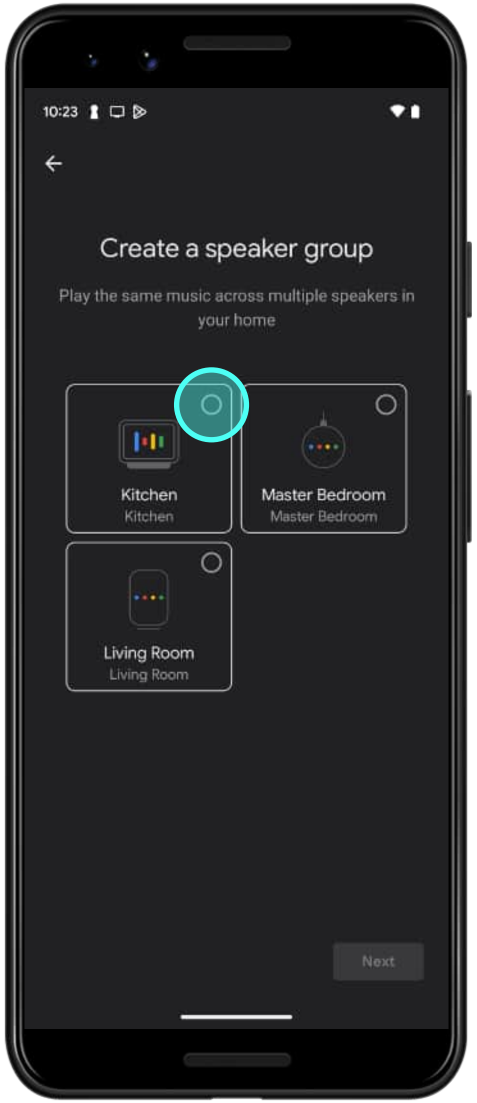
Create a speaker group

Play the same music across multiple speakers in your home

○ Kitchen
Kitchen
○ Master Bedroom
Master Bedroom
○ Living Room
Living Room
Next

Creating / Saving a First Speaker Group


Master Bedroom
Living Room
Kitchen


10:23

Create a speaker group

Play the same music across multiple speakers in your home

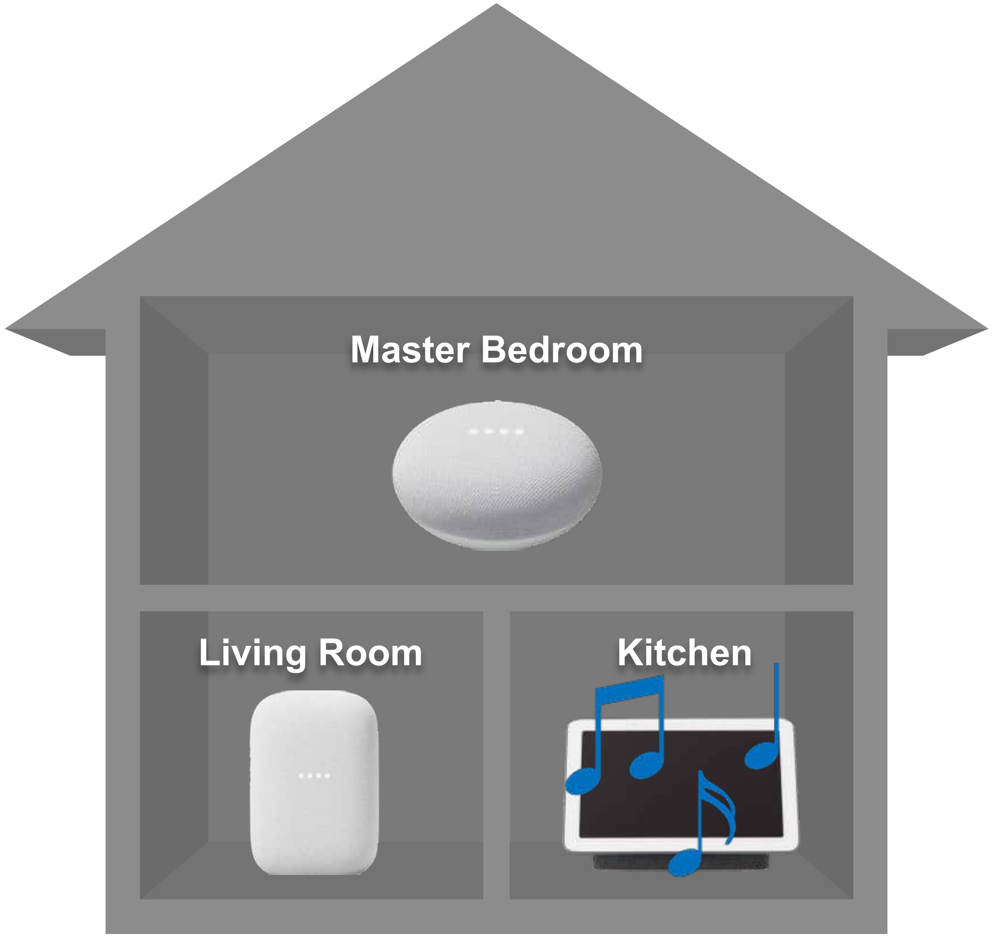
○ Kitchen
Kitchen

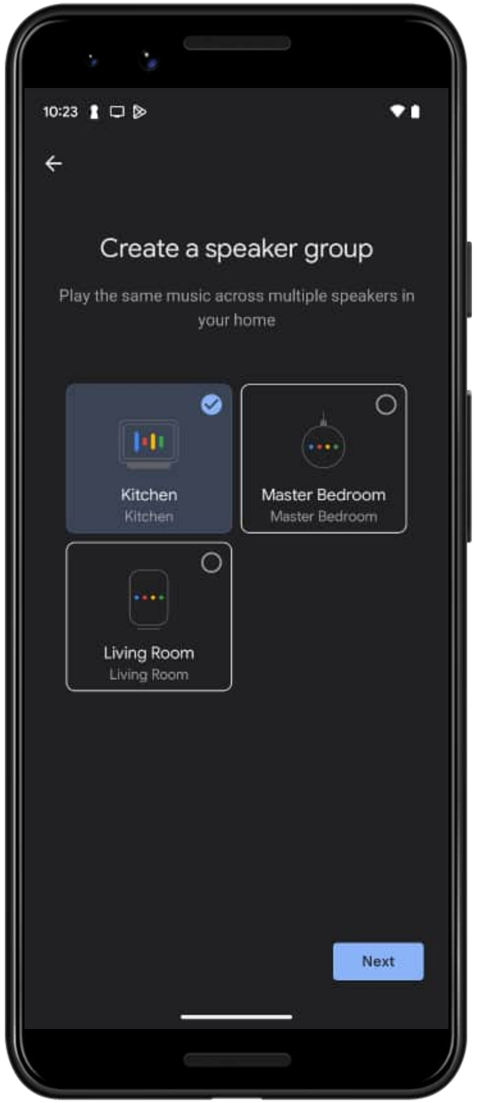
○ Master Bedroom
Master Bedroom

○ Living Room
Living Room

Next

Creating / Saving a First Speaker Group


Master Bedroom
Living Room
Kitchen



Create a speaker group

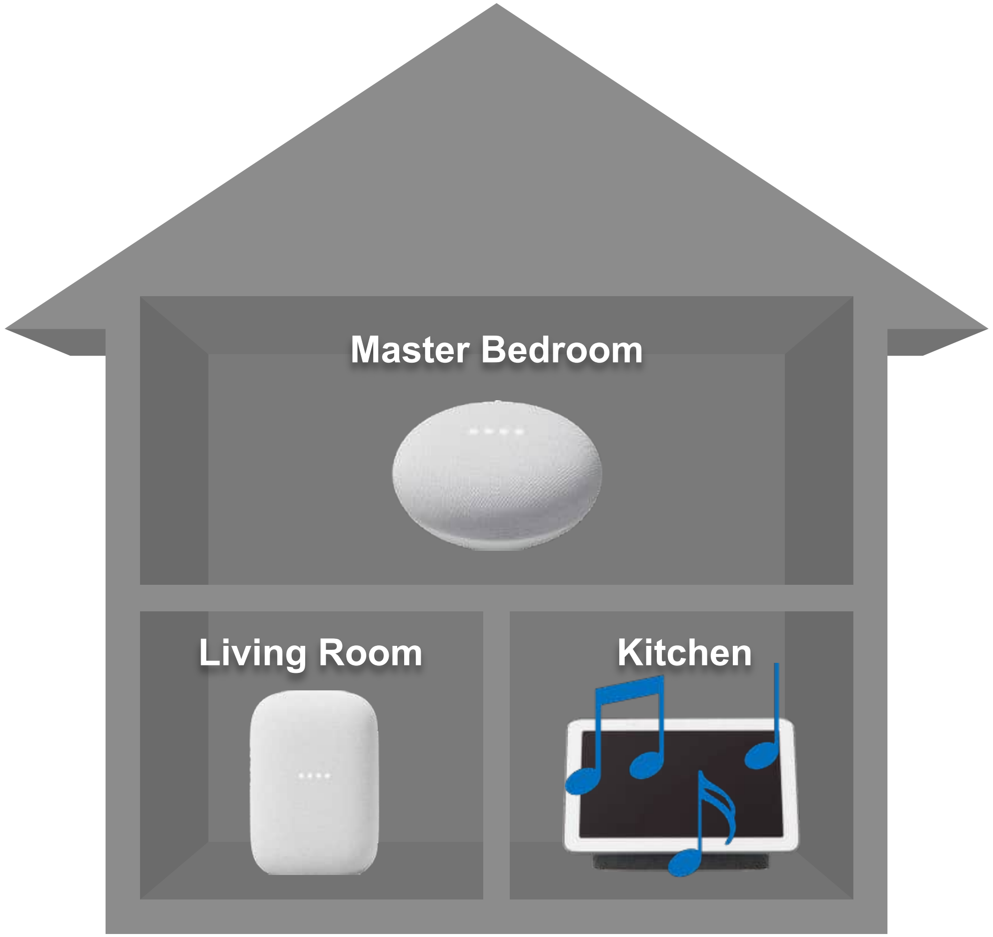
Play the same music across multiple speakers in your home

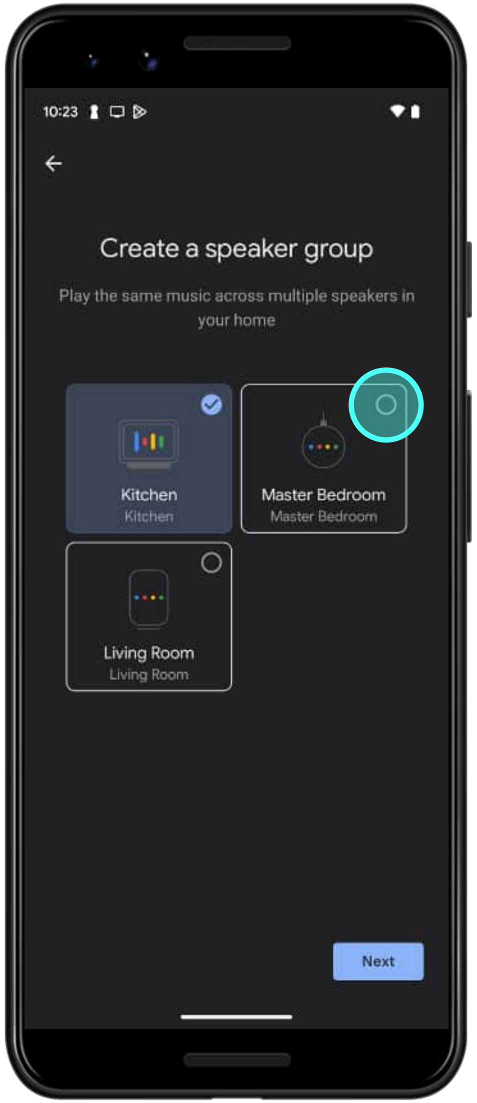
☑ Kitchen
Kitchen

○ Master Bedroom
Master Bedroom

○ Living Room
Living Room

Creating / Saving a First Speaker Group


Master Bedroom
Living Room
Kitchen



Create a speaker group

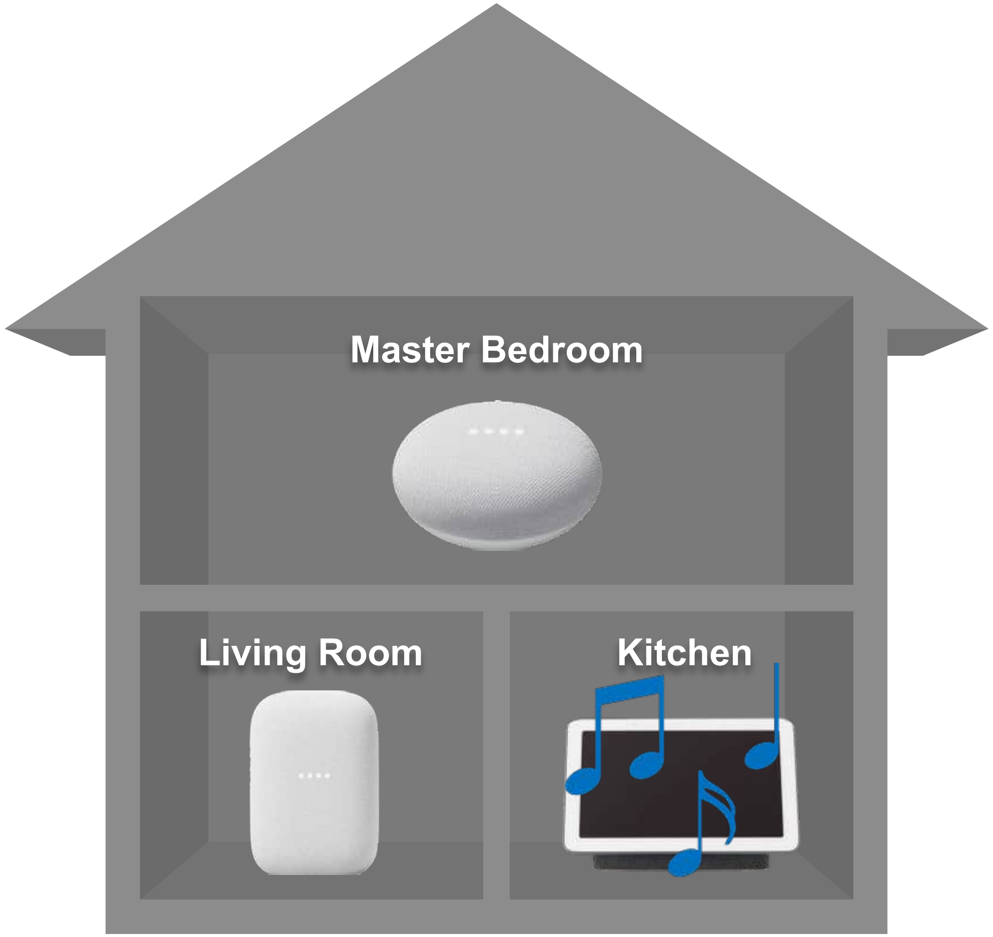
Play the same music across multiple speakers in your home

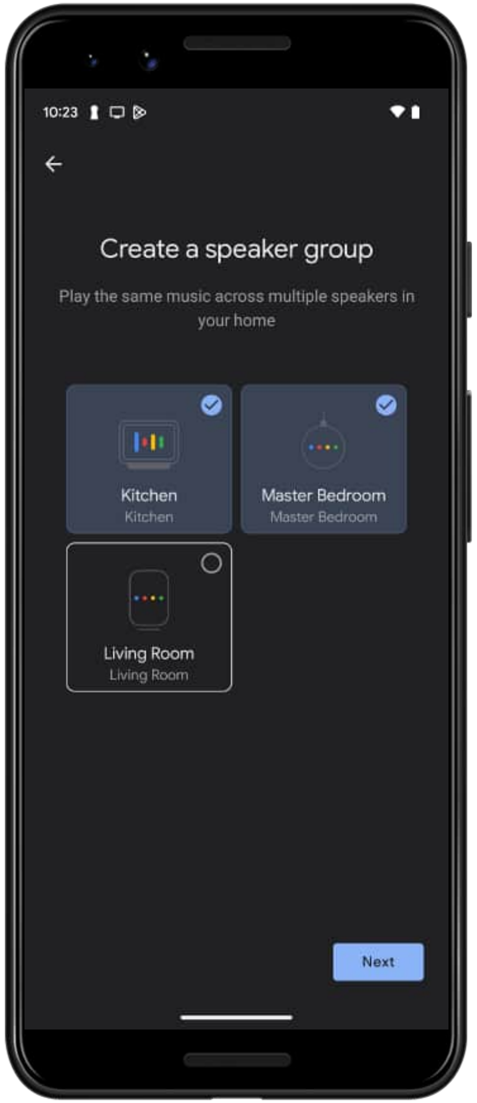
☑ Kitchen
Kitchen

○ Master Bedroom
Master Bedroom

○ Living Room
Living Room

Creating / Saving a First Speaker Group


Master Bedroom
Living Room
Kitchen



Create a speaker group

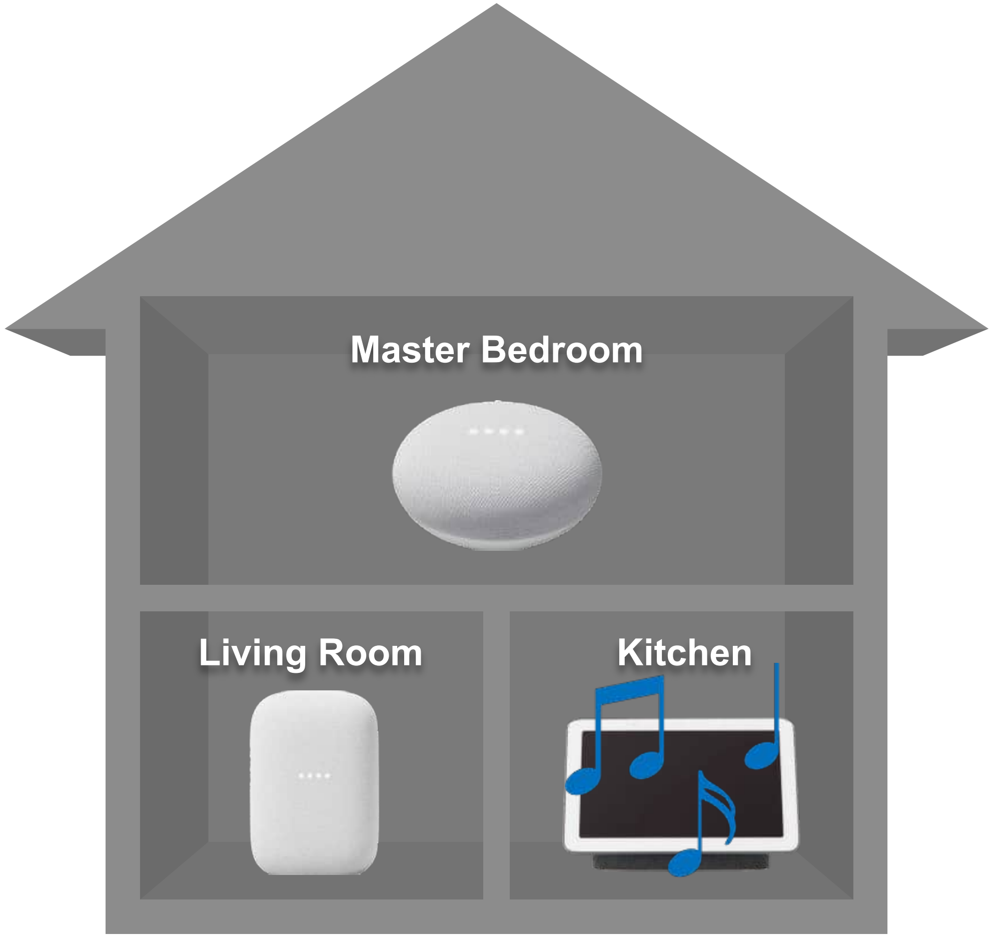
Play the same music across multiple speakers in your home

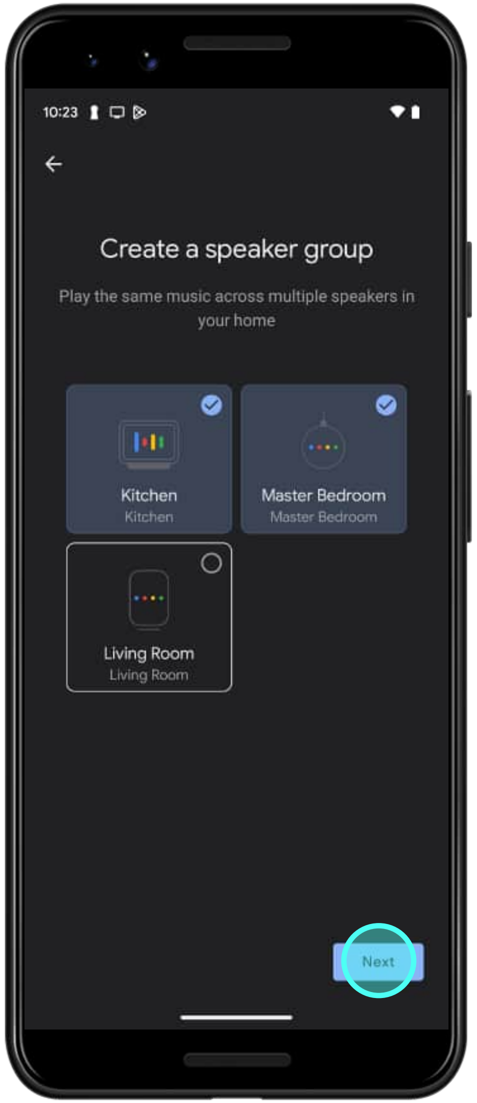
☑ Kitchen
Kitchen

☑ Master Bedroom
Master Bedroom

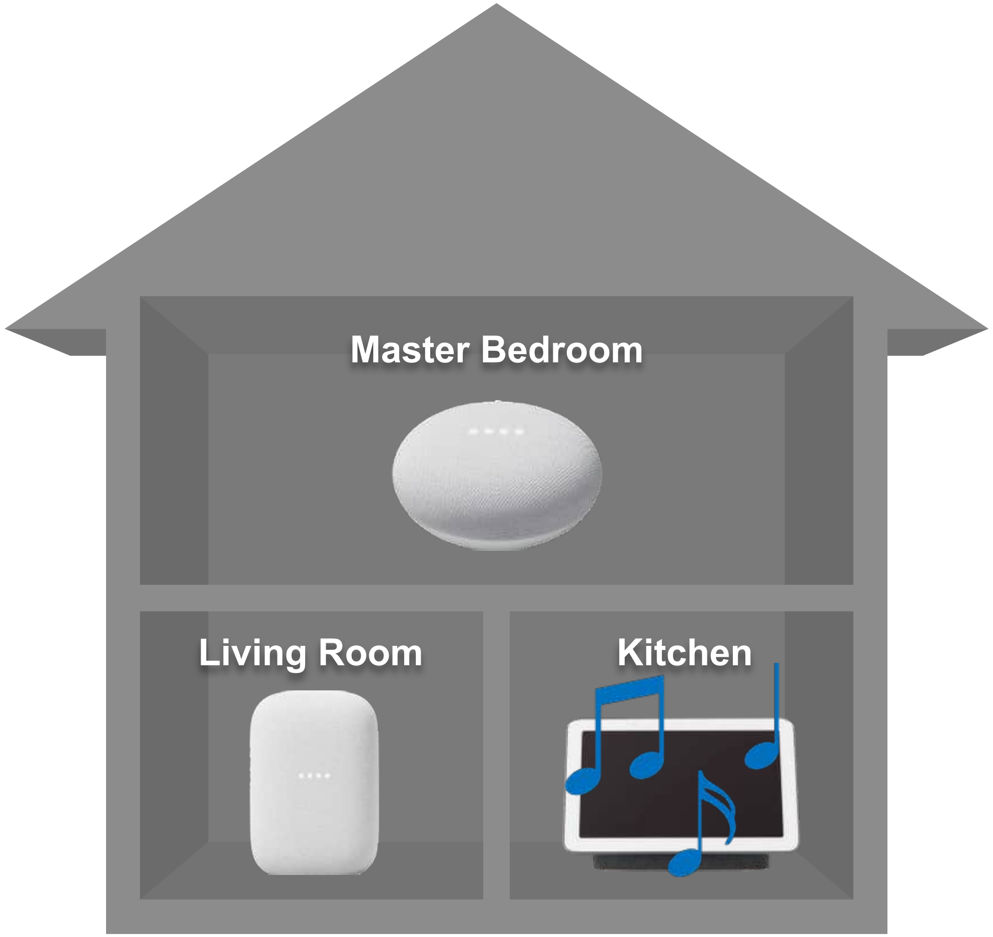
○ Living Room
Living Room

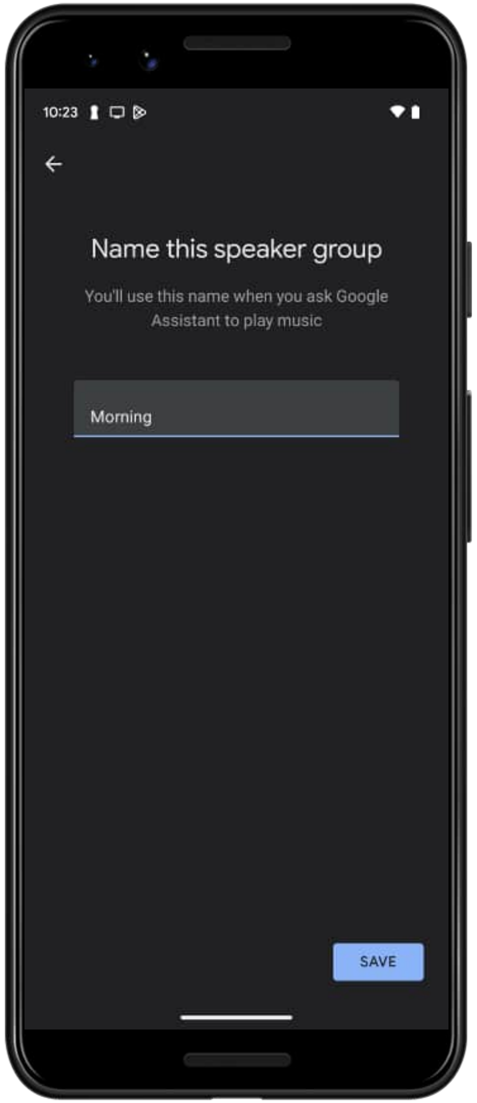
Creating / Saving a First Speaker Group


Master Bedroom
Living Room
Kitchen


10:23
Create a speaker group
Play the same music across multiple speakers in your home
Kitchen
Kitchen
Master Bedroom
Master Bedroom
Living Room
Living Room
Next

Creating / Saving a First Speaker Group


Master Bedroom
Living Room
Kitchen

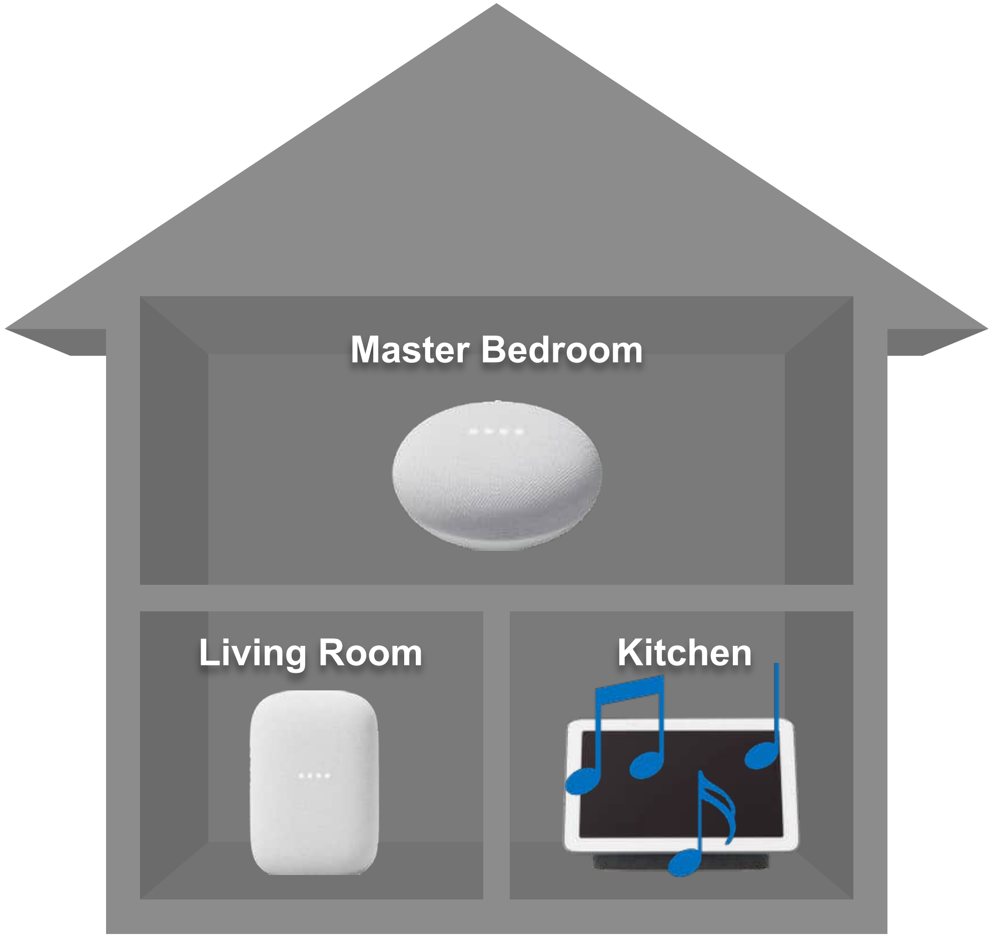


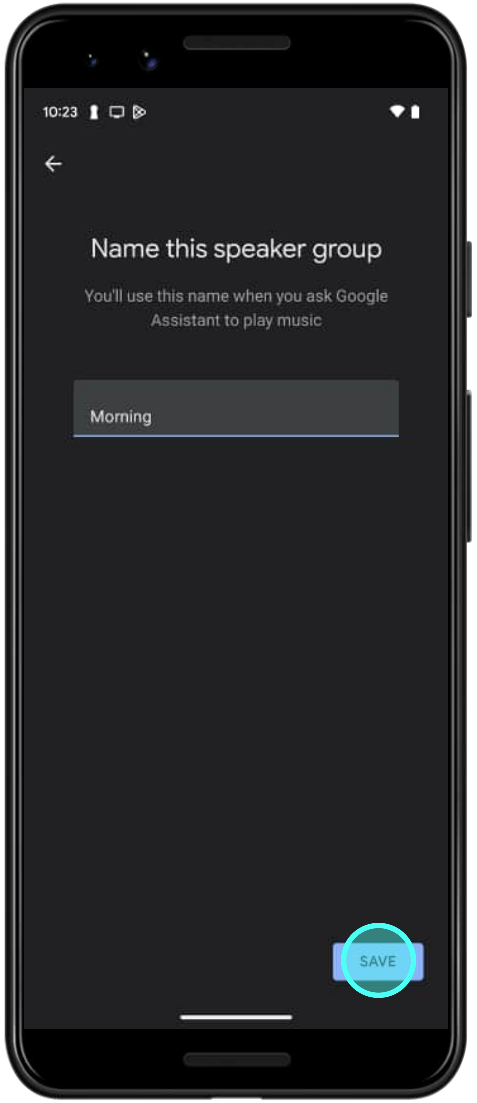
Name this speaker group

You'll use this name when you ask Google Assistant to play music

Morning

Creating / Saving a First Speaker Group


Master Bedroom
Living Room
Kitchen

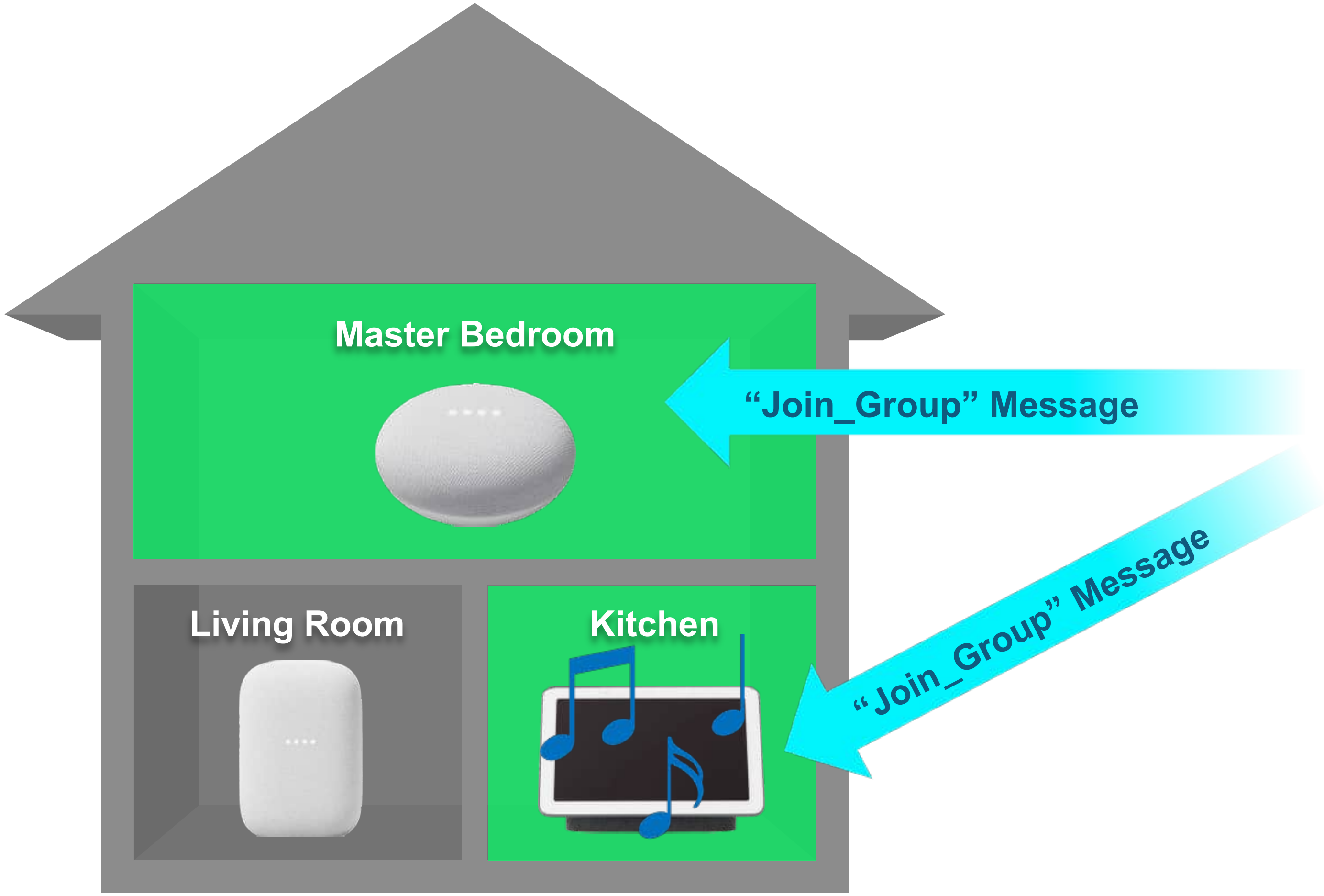


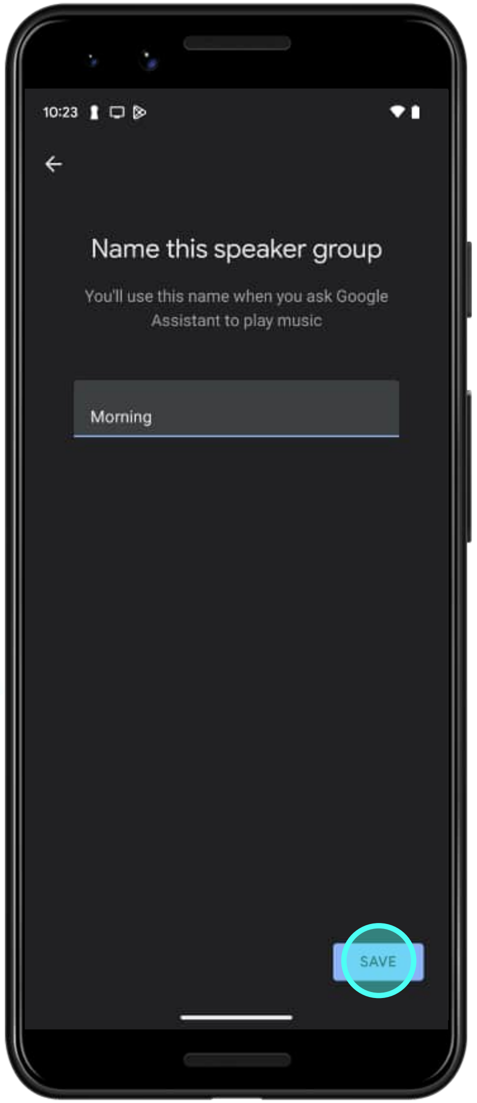
Name this speaker group

You'll use this name when you ask Google Assistant to play music

Morning

Creating / Saving a First Speaker Group


Master Bedroom
"Join_Group" Message
Living Room
Kitchen
"Join_Group" Message

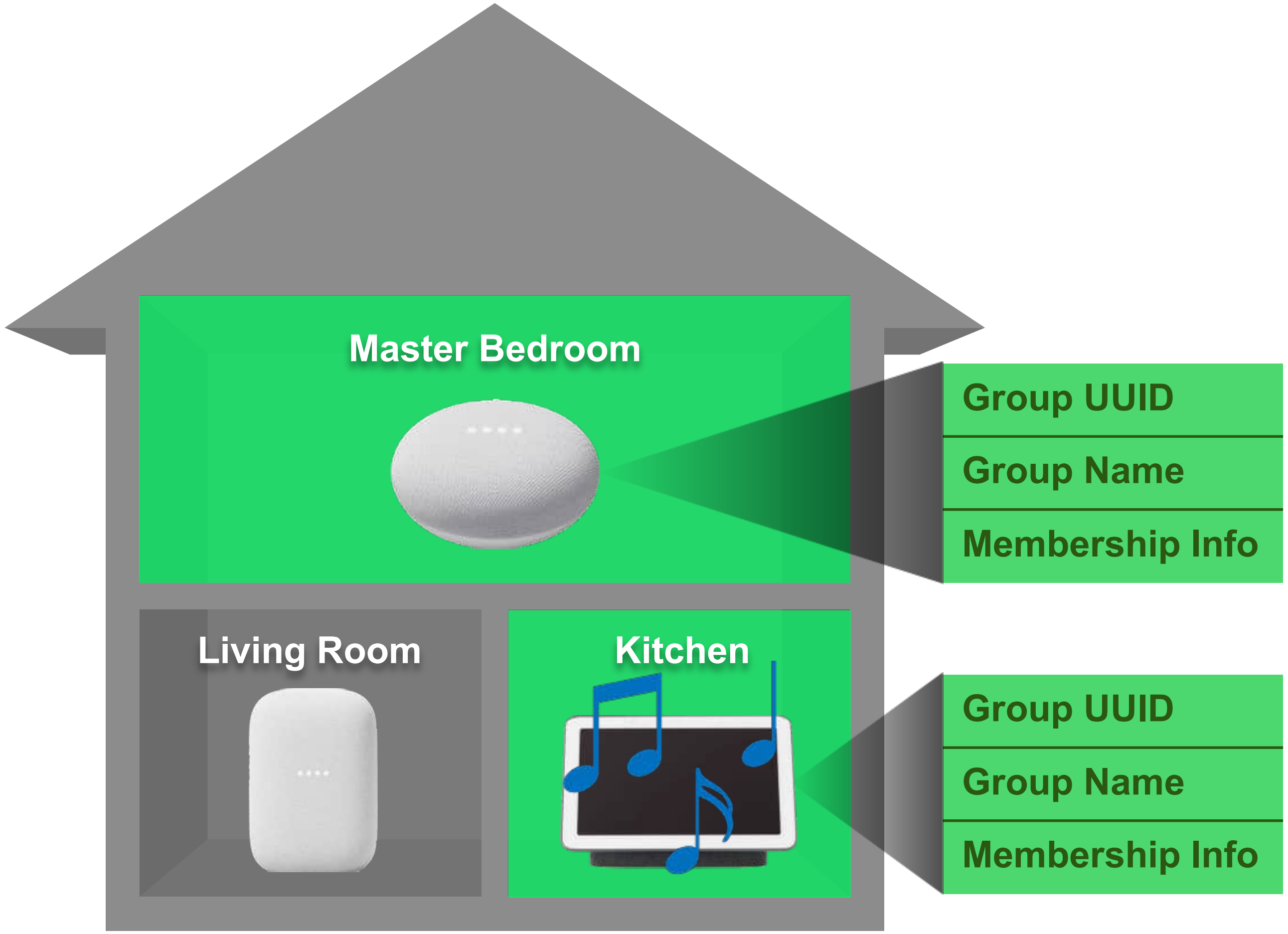


Name this speaker group

You'll use this name when you ask Google Assistant to play music

Morning

Creating / Saving a First Speaker Group


Master Bedroom
Living Room
Kitchen

Group UUID

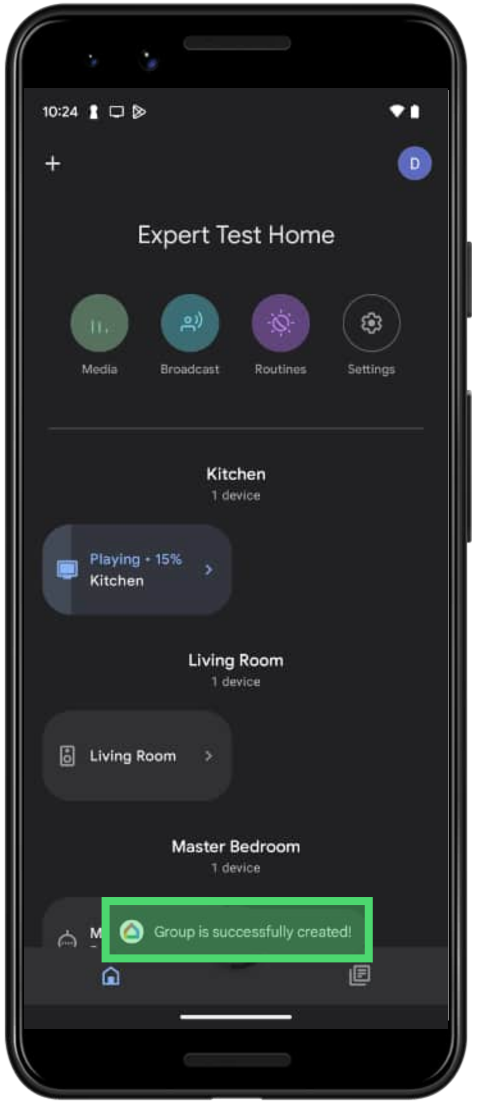
Group Name

Membership Info

Group UUID

Group Name

Membership Info


10:24
D
Media
Broadcast
Routines
Settings

Expert Test Home

Kitchen
1 device

Playing • 15%
Kitchen

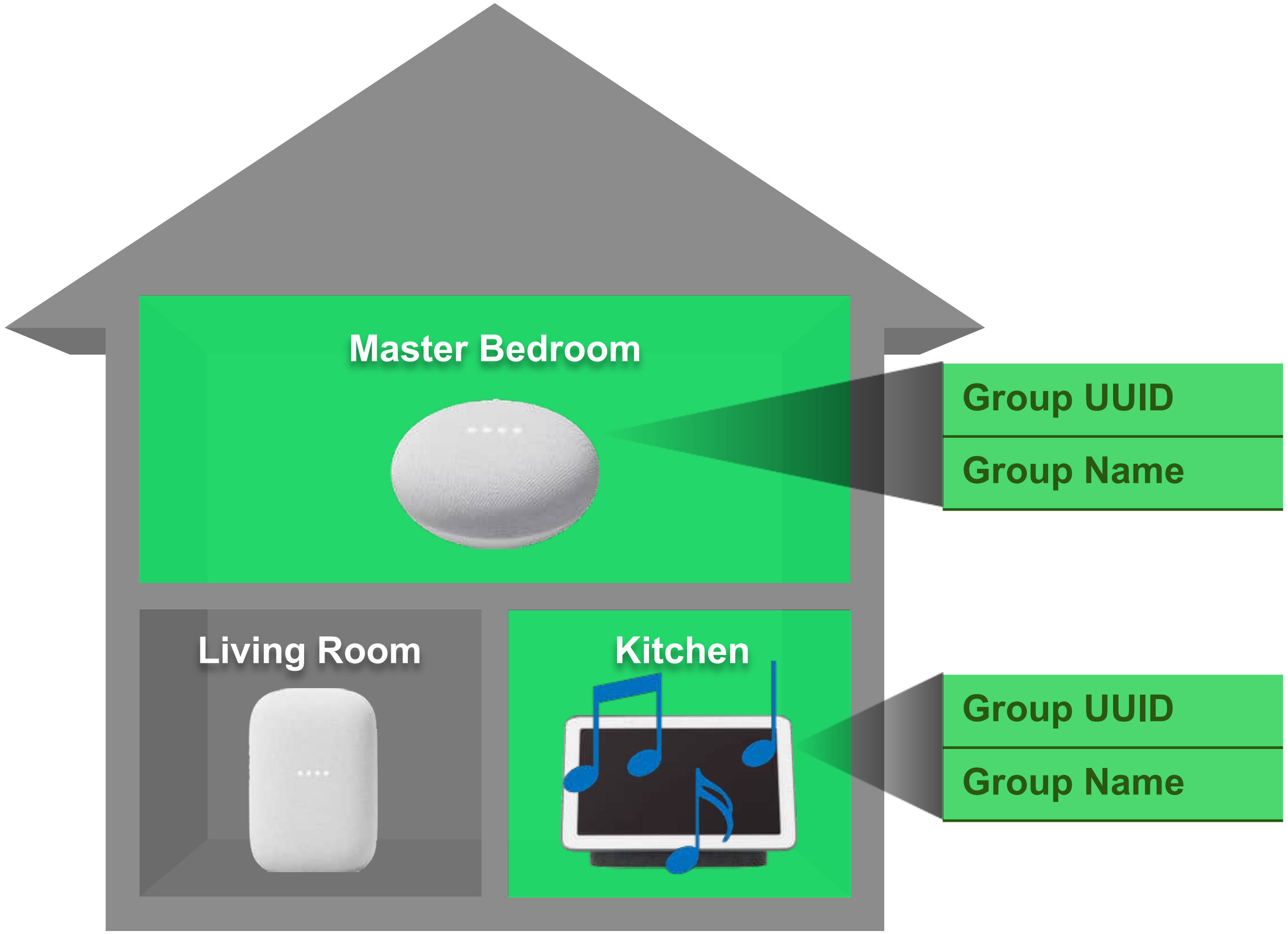
Living Room
1 device

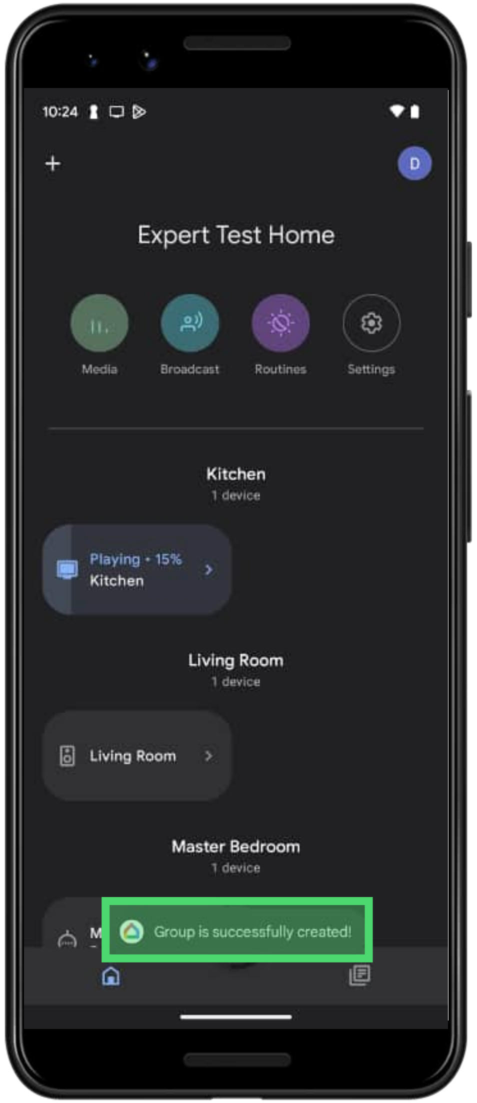
Living Room

Master Bedroom
1 device

Group is successfully created!

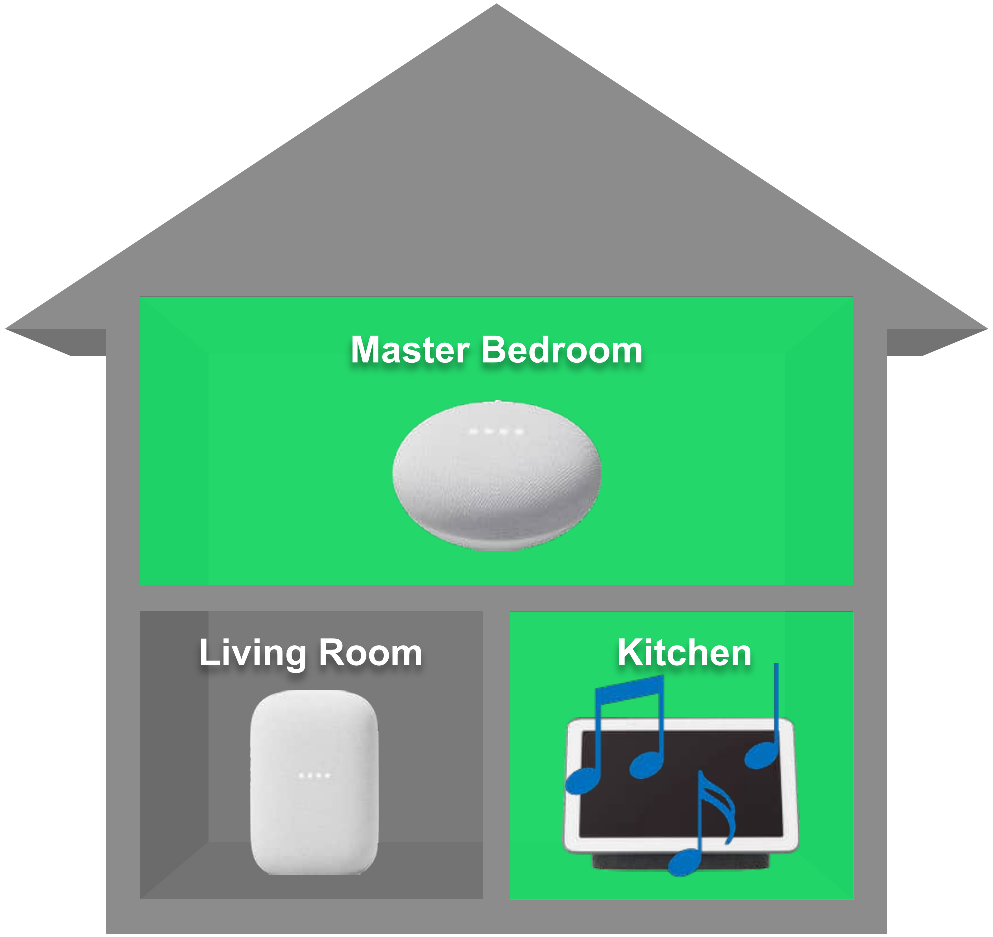
Creating / Saving a First Speaker Group


Master Bedroom
Group UUID
Group Name
Living Room
Kitchen
Group UUID
Group Name


10:24
D
Expert Test Home
Media
Broadcast
Routines
Settings
Kitchen
1 device
Playing • 15%
Kitchen
Living Room
1 device
Living Room
Master Bedroom
1 device
M

Group is successfully created!

Creating / Saving a First Speaker Group


Master Bedroom
Living Room
Kitchen

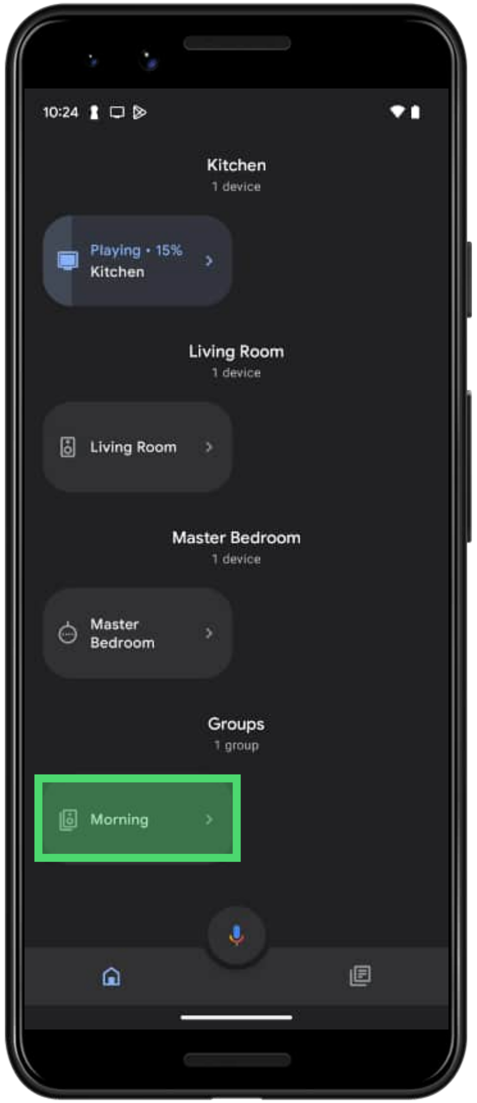

10:24
Kitchen
1 device
Playing • 15%
Kitchen
Living Room
1 device
Living Room
Master Bedroom
1 device
Master Bedroom
Groups
1 group
Morning

EXHIBIT A - FILED UNDER SEAL

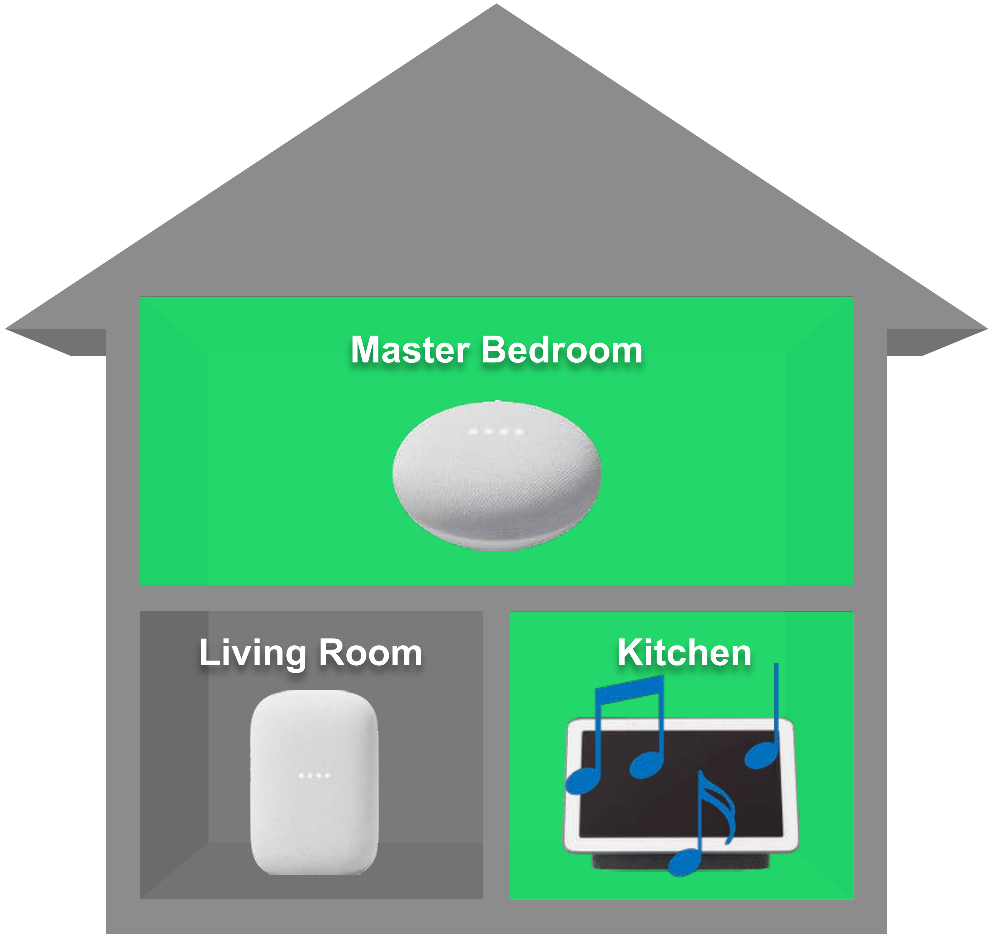
Creating / Saving a Second Speaker Group

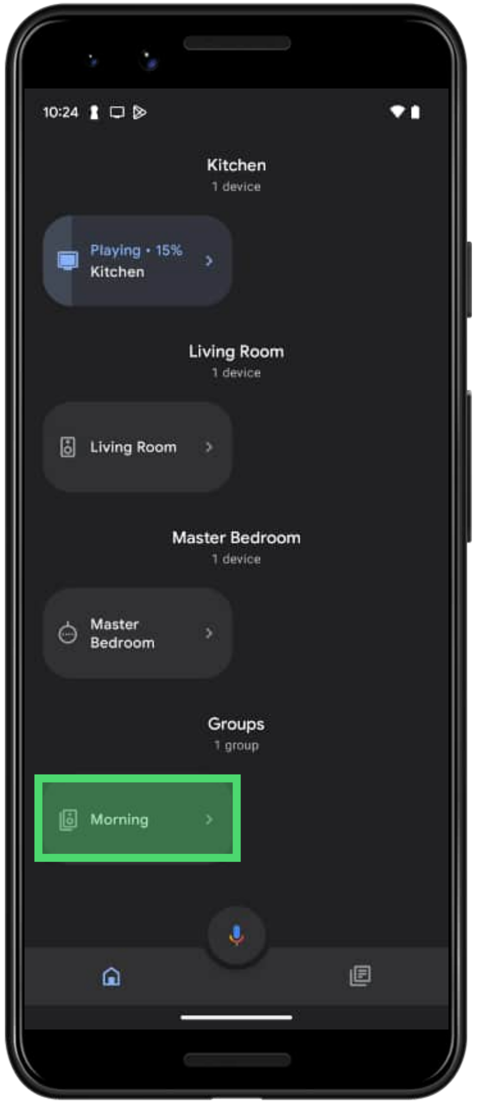
Google Home App (Active Playback on Kitchen)

Creating / Saving a Second Speaker Group

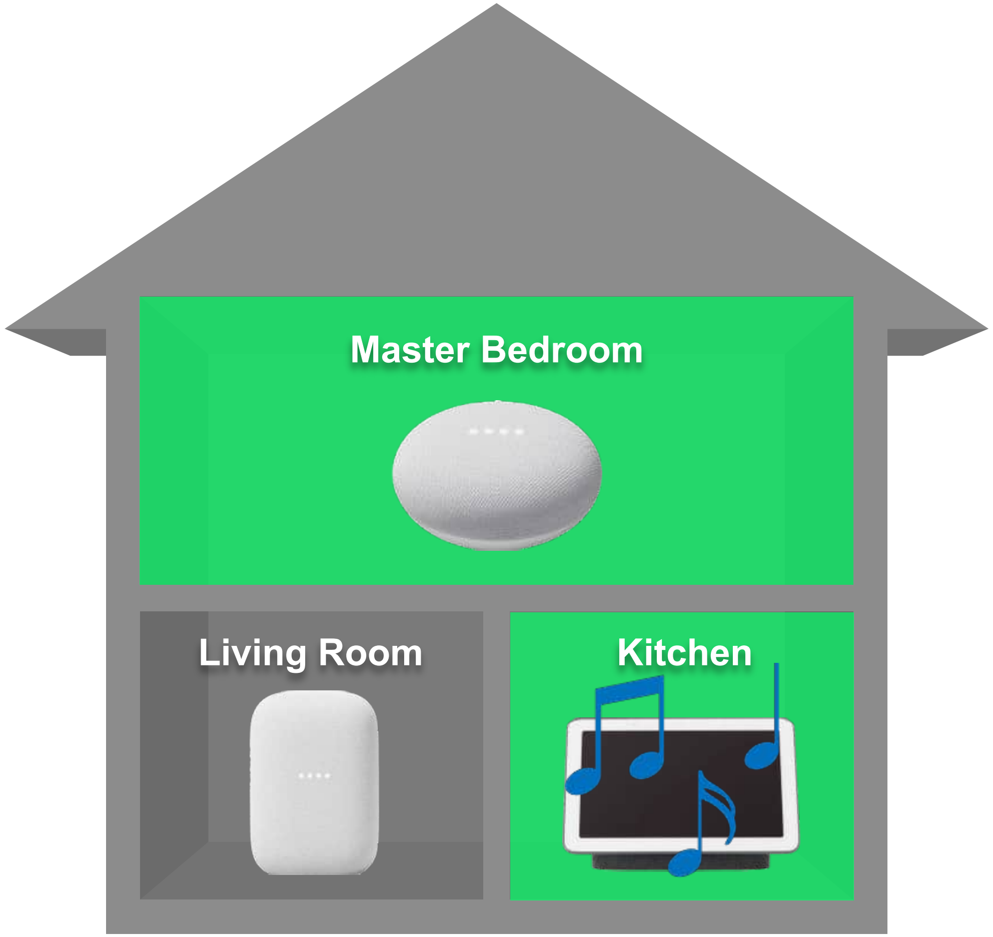
- Google's Third Supplemental Response to Sonos's Interrogatory No. 13
- Testimony from Google's corporate designees
  - Kenneth MacKay
  - Justin Pedro
- Google Documents
  - "Create and manage speaker groups" [GOOG-SONOSWDTX-00007068-74]
  - "Group your Google Assistance device" [SONOS-SVG2-00055660-61]
  - "Multizone – cast_shell integration" [GOOG-SONOSWDTX-00048962-66]
  - "Cast for Audio" Initial UX Spec [GOOG-SONOSNDCA-00056732-77]
  - "Multizone Audio Design" [GOOG-SONOSWDTX-00040384-96]
- Google's Source Code

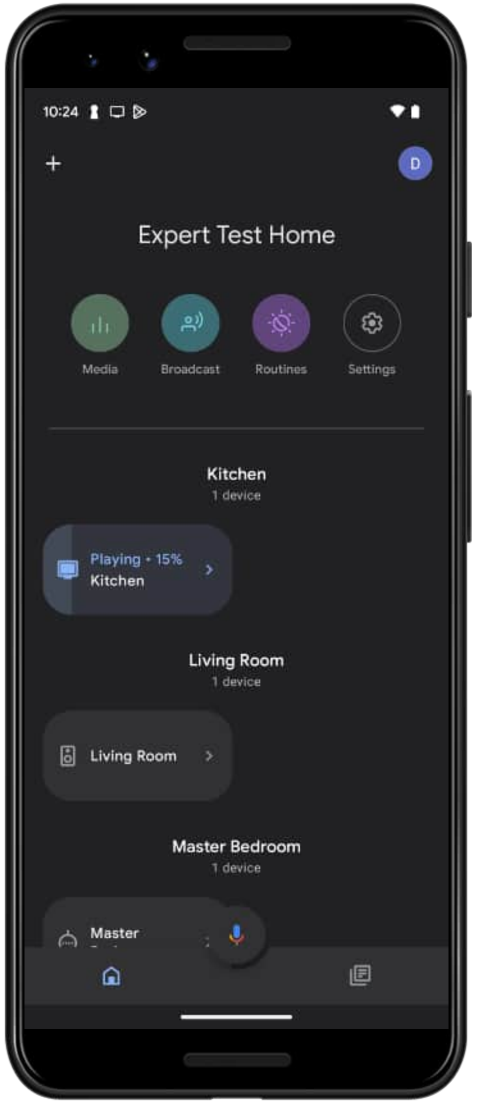
Creating / Saving a Second Speaker Group


Master Bedroom
Living Room
Kitchen


10:24
Kitchen
1 device
Playing • 15%
Kitchen
Living Room
1 device
Living Room
Master Bedroom
1 device
Master Bedroom
Groups
1 group
Morning

Creating / Saving a Second Speaker Group


Master Bedroom
Living Room
Kitchen



10:24

Expert Test Home

Media
Broadcast
Routines
Settings

Kitchen
1 device

Playing • 15%
Kitchen

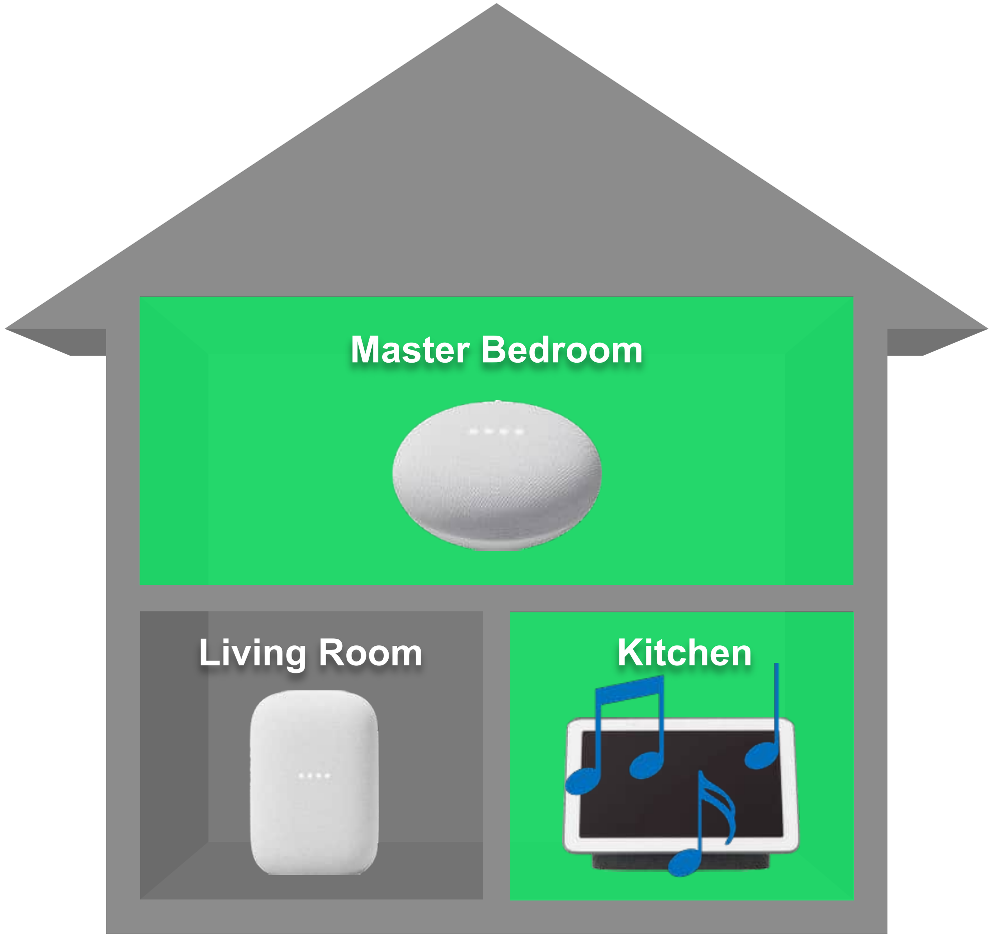
Living Room
1 device

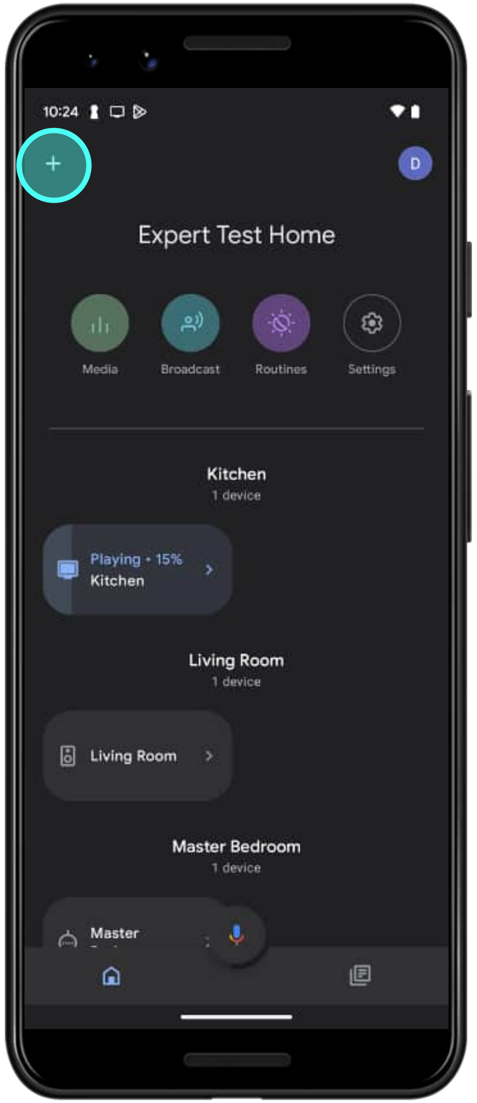
Living Room

Master Bedroom
1 device

Master

Creating / Saving a Second Speaker Group


Master Bedroom
Living Room
Kitchen


10:24

Expert Test Home

Media
Broadcast
Routines
Settings

Kitchen
1 device

Playing • 15%
Kitchen

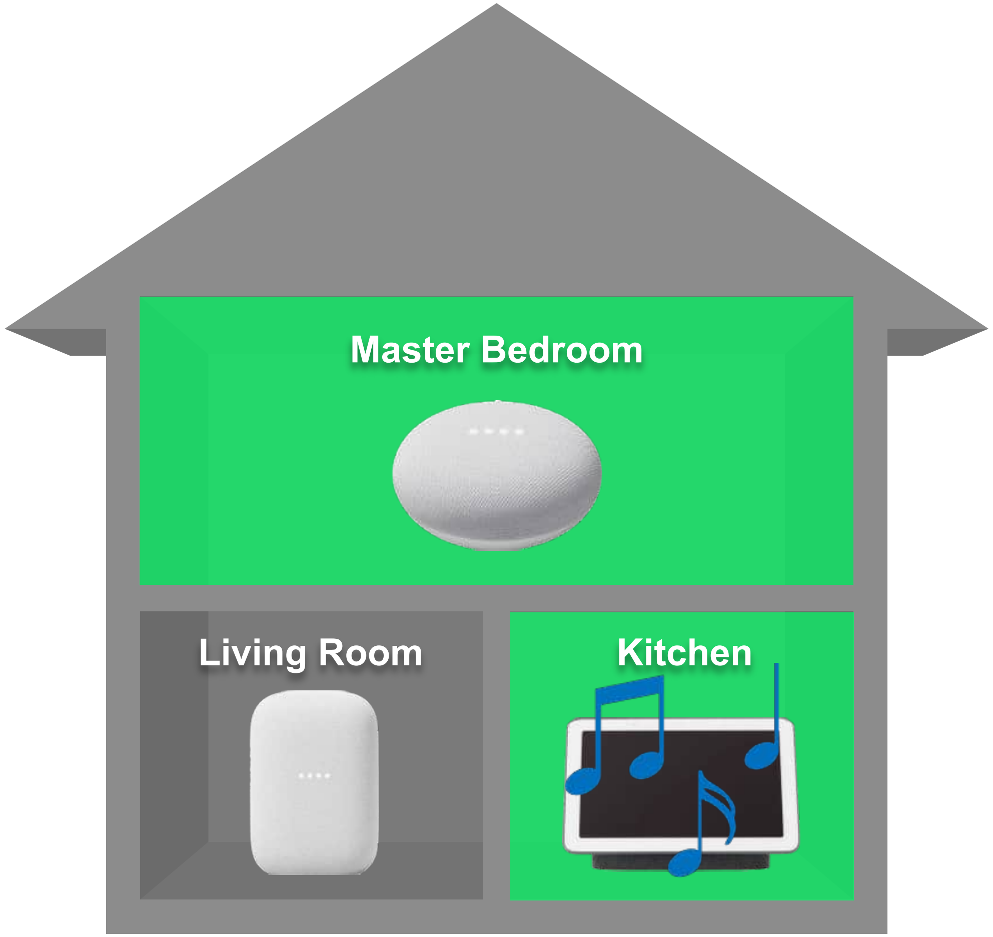
Living Room
1 device

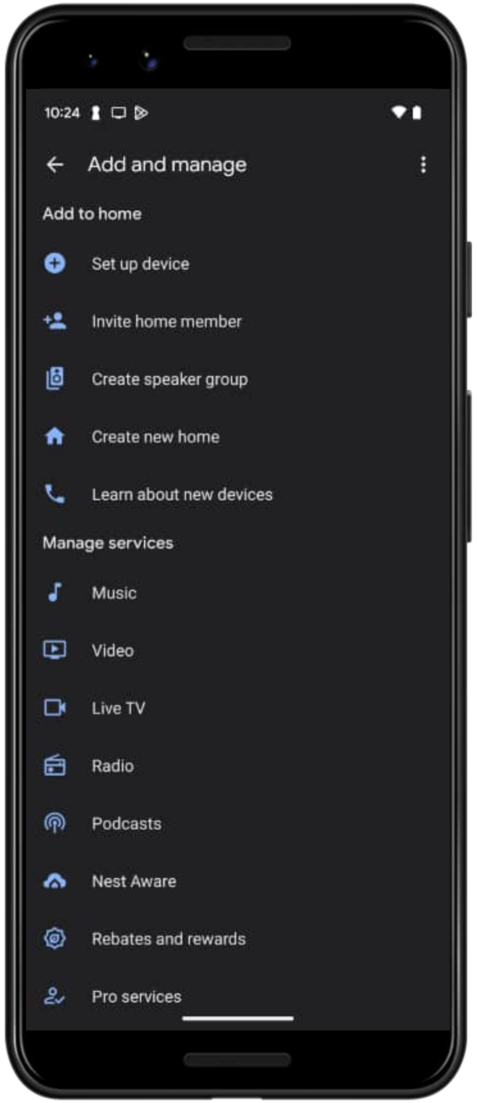
Living Room

Master Bedroom
1 device

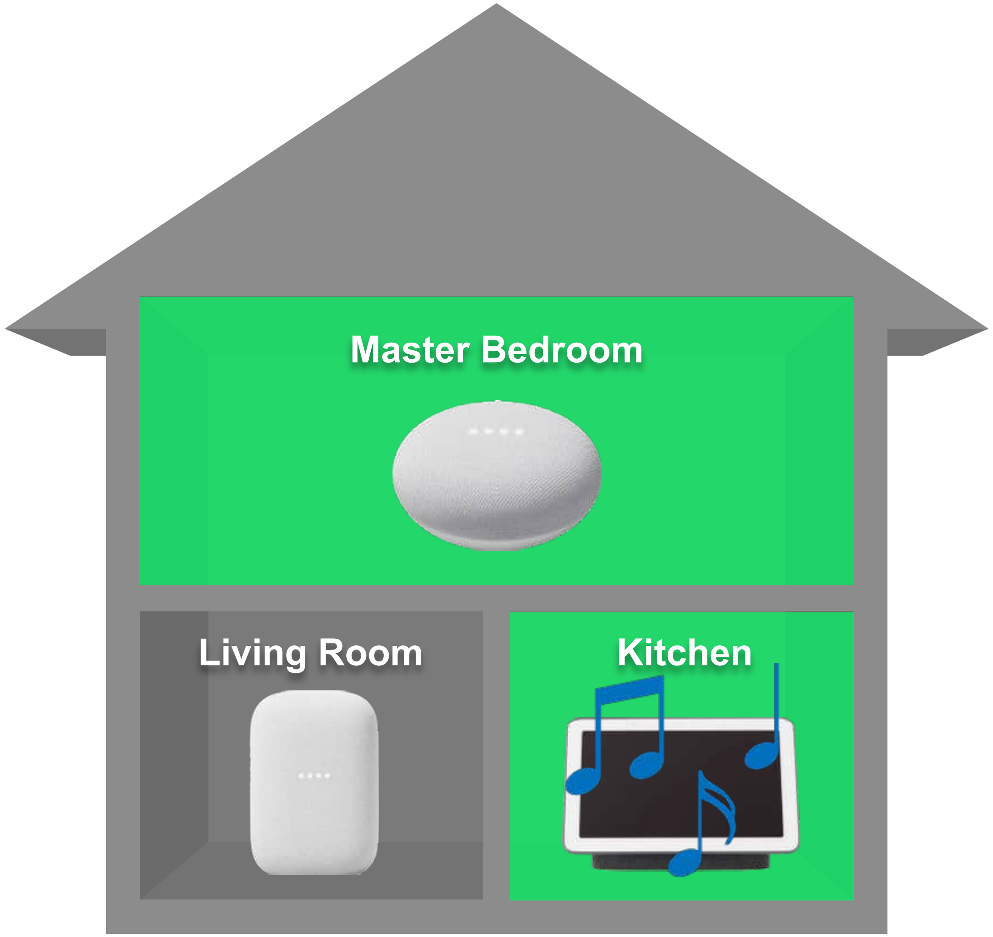
Master

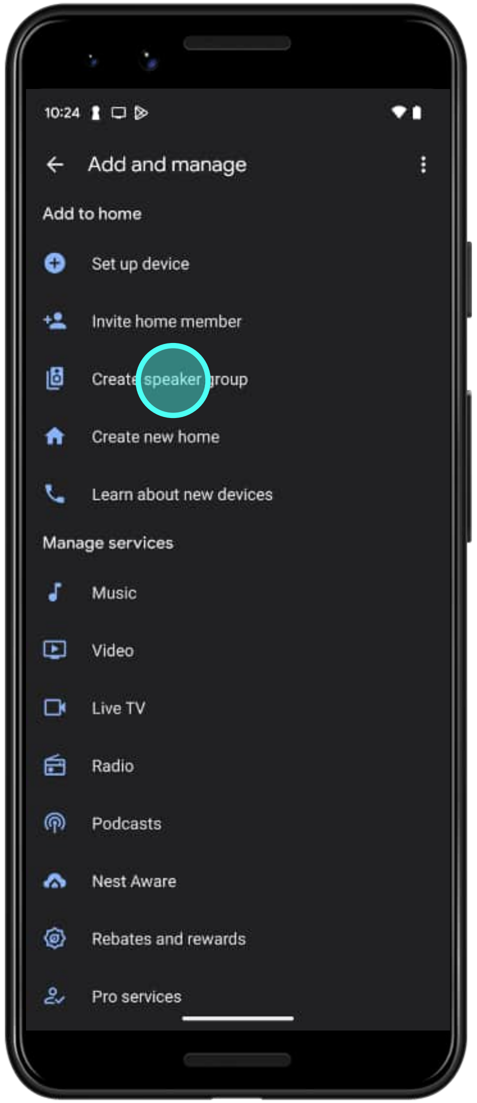
Creating / Saving a Second Speaker Group


Master Bedroom
Living Room
Kitchen


10:24
Add and manage
Add to home
Set up device
Invite home member
Create speaker group
Create new home
Learn about new devices
Manage services
Music
Video
Live TV
Radio
Podcasts
Nest Aware
Rebates and rewards
Pro services

Creating / Saving a Second Speaker Group




10:24

Add and manage

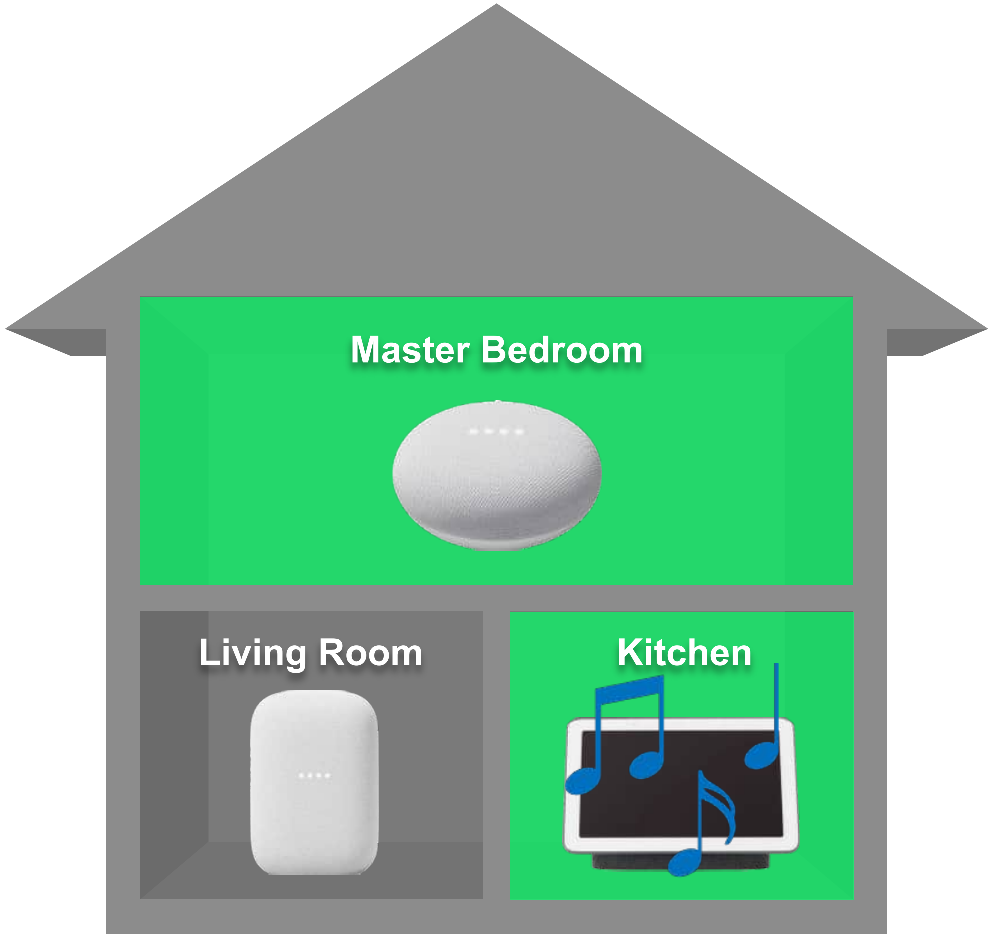
Add to home

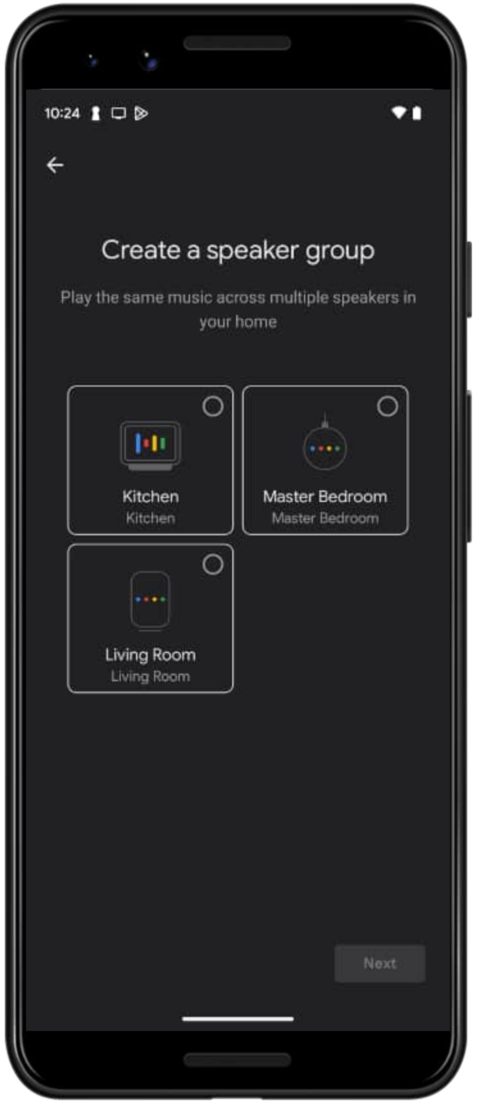
- Set up device
- Invite home member
- Create speaker group
- Create new home
- Learn about new devices

Manage services

- Music
- Video
- Live TV
- Radio
- Podcasts
- Nest Aware
- Rebates and rewards
- Pro services

Creating / Saving a Second Speaker Group


Master Bedroom
Living Room
Kitchen

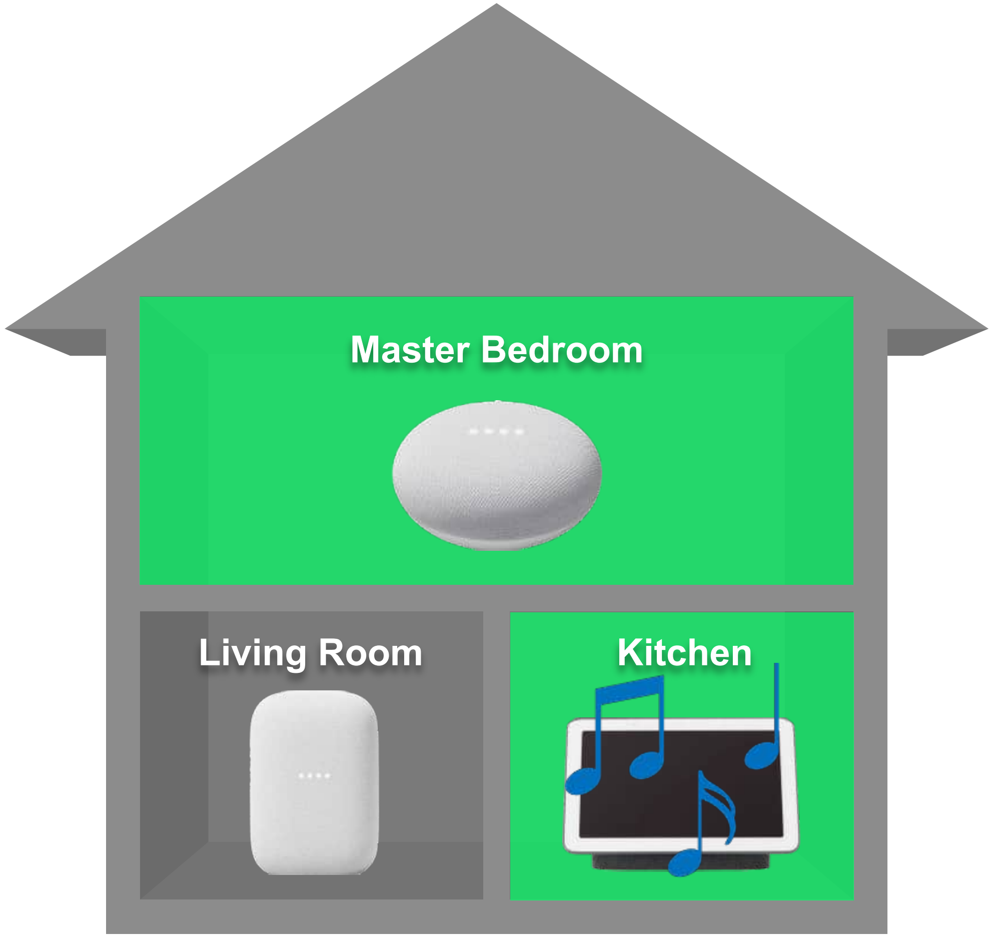

10:24
←

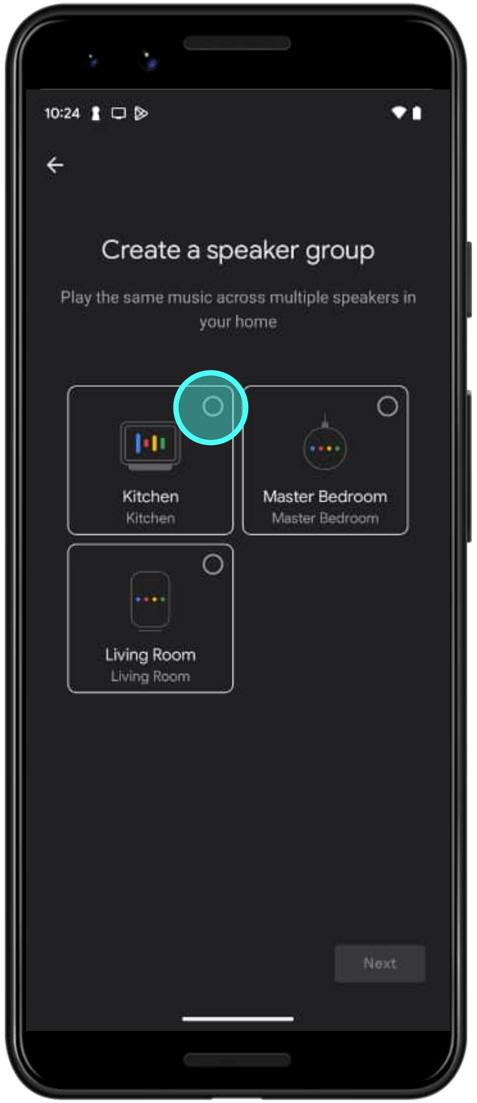
Create a speaker group

Play the same music across multiple speakers in your home

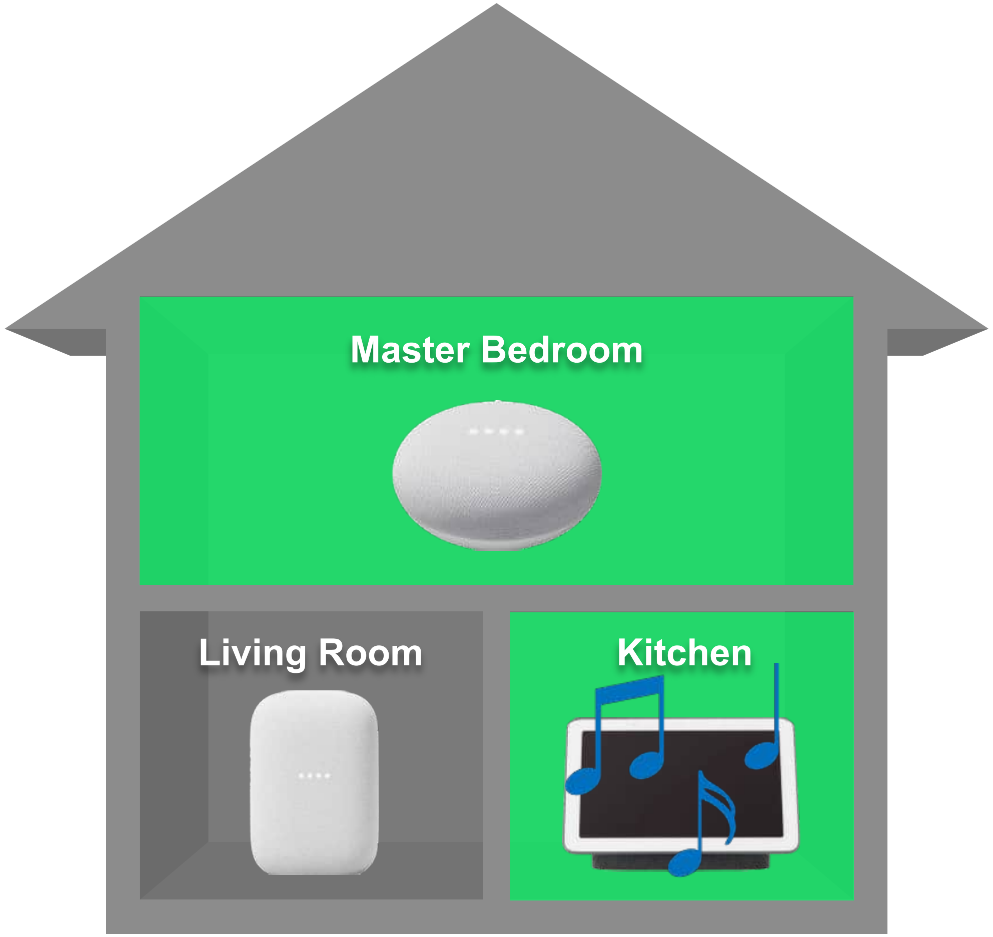
○ Kitchen
Kitchen
○ Master Bedroom
Master Bedroom
○ Living Room
Living Room
Next

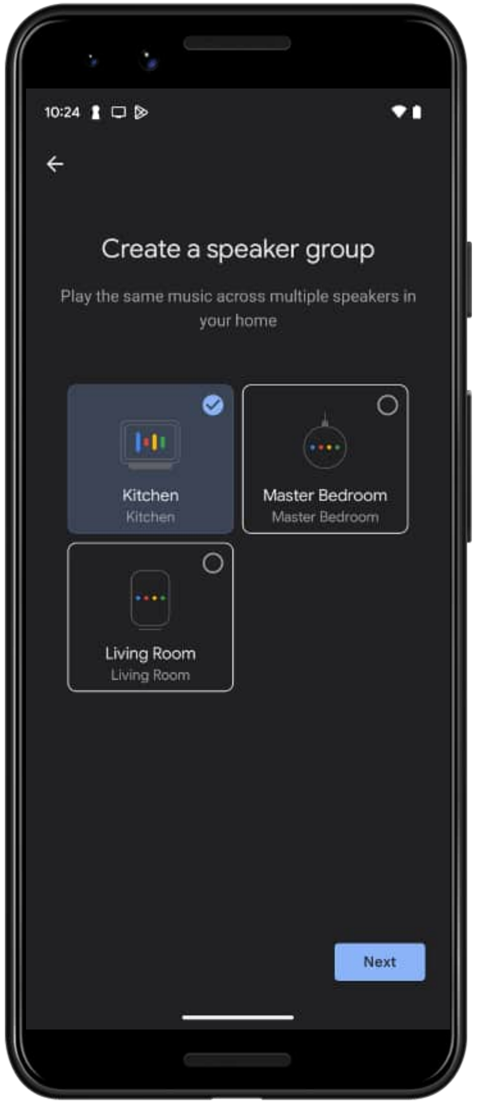
Creating / Saving a Second Speaker Group


Master Bedroom
Living Room
Kitchen


10:24
Create a speaker group
Play the same music across multiple speakers in your home
Kitchen
Kitchen
Master Bedroom
Master Bedroom
Living Room
Living Room
Next

Creating / Saving a Second Speaker Group


Master Bedroom
Living Room
Kitchen

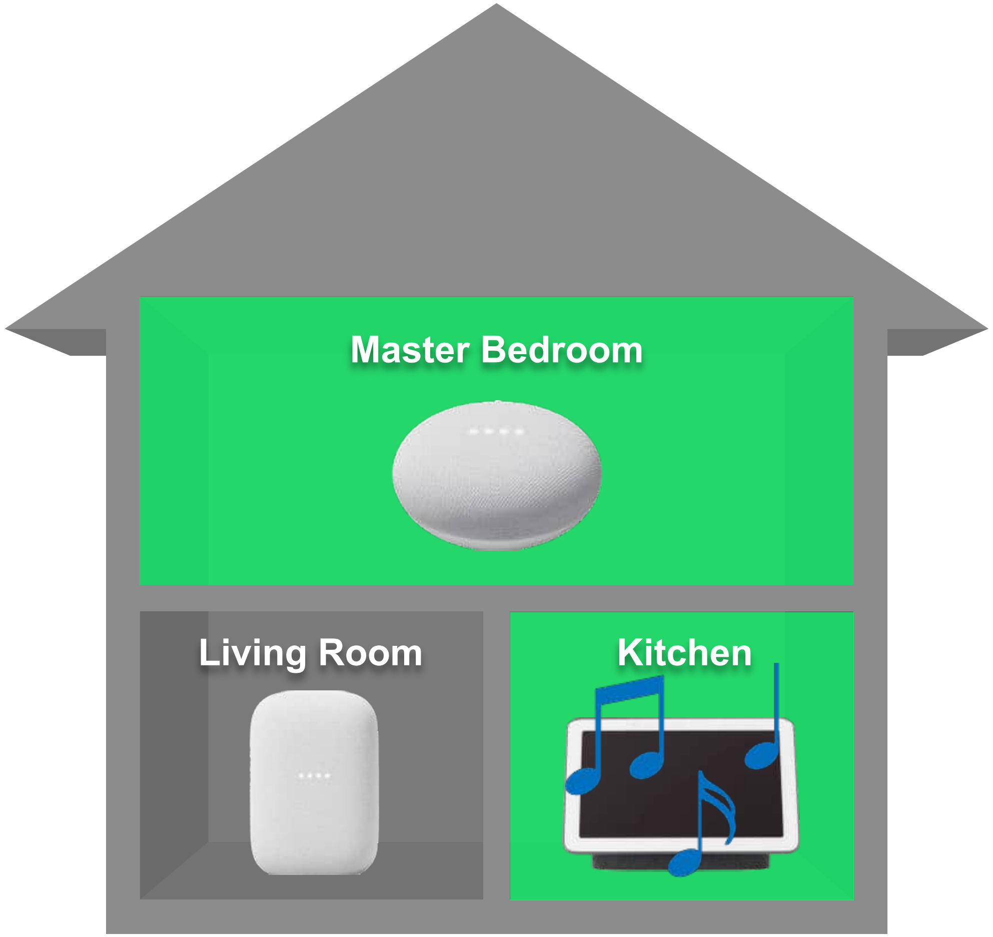


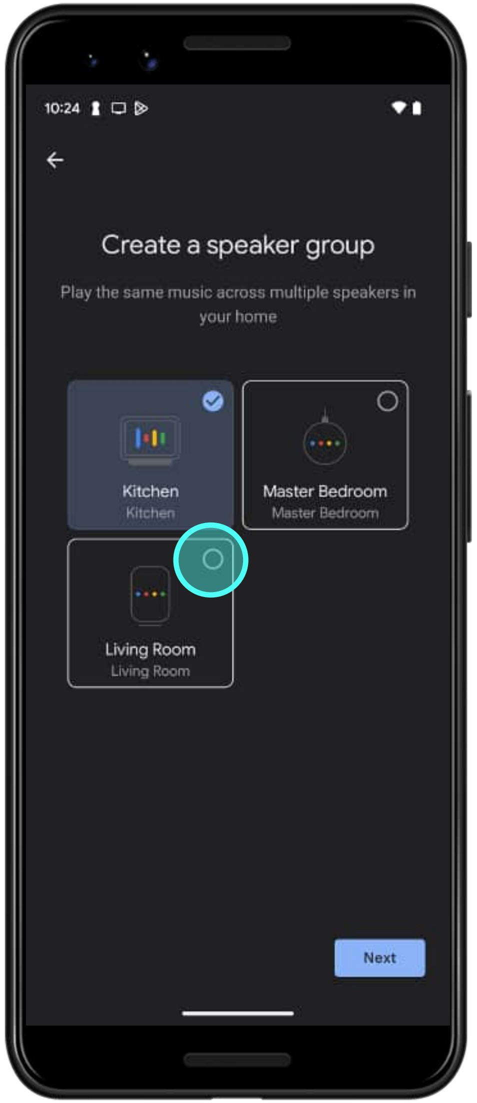
Create a speaker group

Play the same music across multiple speakers in your home

☑ Kitchen Kitchen
○ Master Bedroom Master Bedroom
○ Living Room Living Room

Creating / Saving a Second Speaker Group


Master Bedroom
Living Room
Kitchen



Create a speaker group

Play the same music across multiple speakers in your home

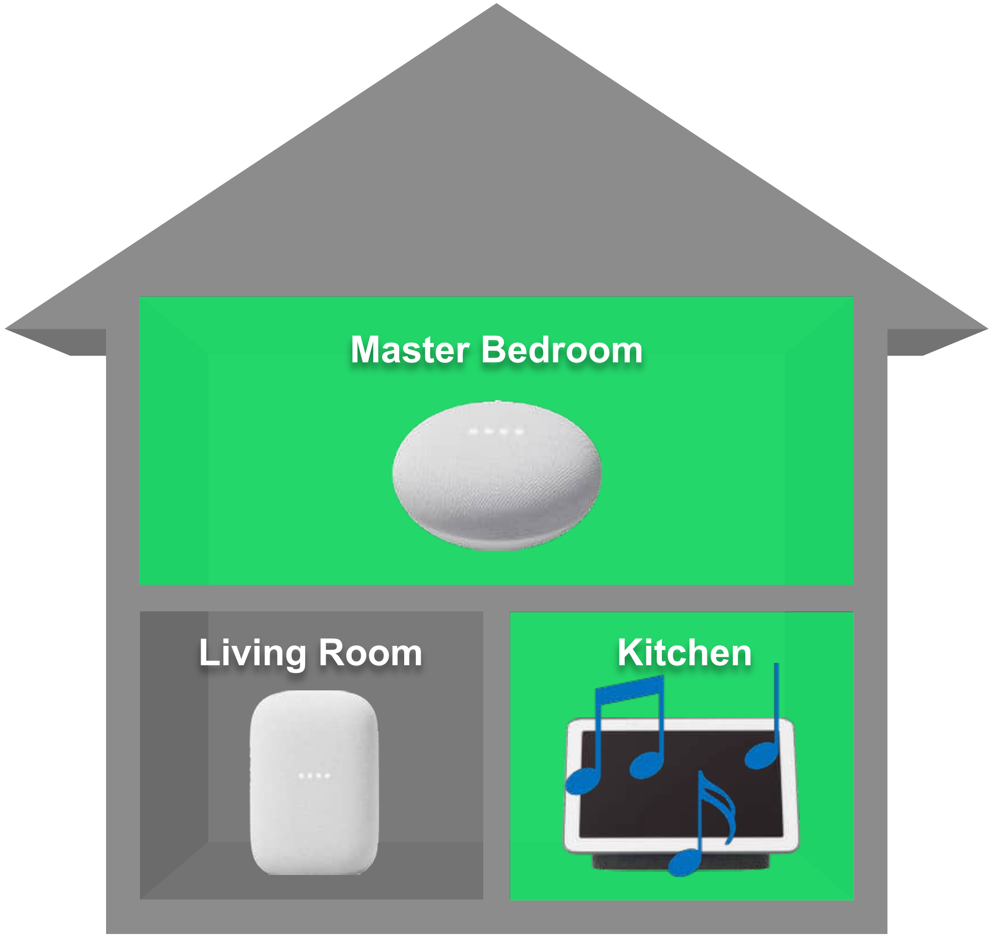
☑ Kitchen
Kitchen

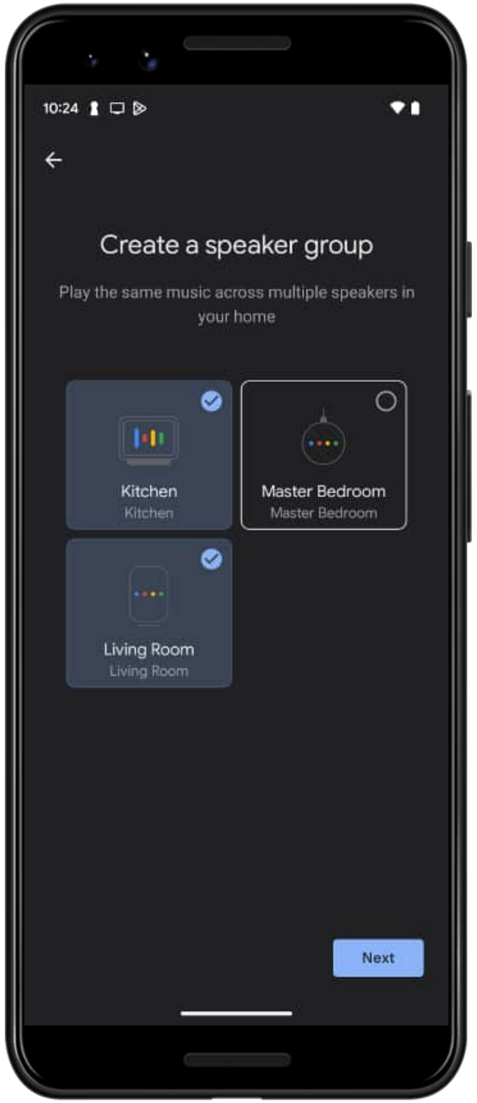
○ Master Bedroom
Master Bedroom

○ Living Room
Living Room

EXHIBIT A - FILED UNDER SEAL

Creating / Saving a Second Speaker Group


Master Bedroom
Living Room
Kitchen

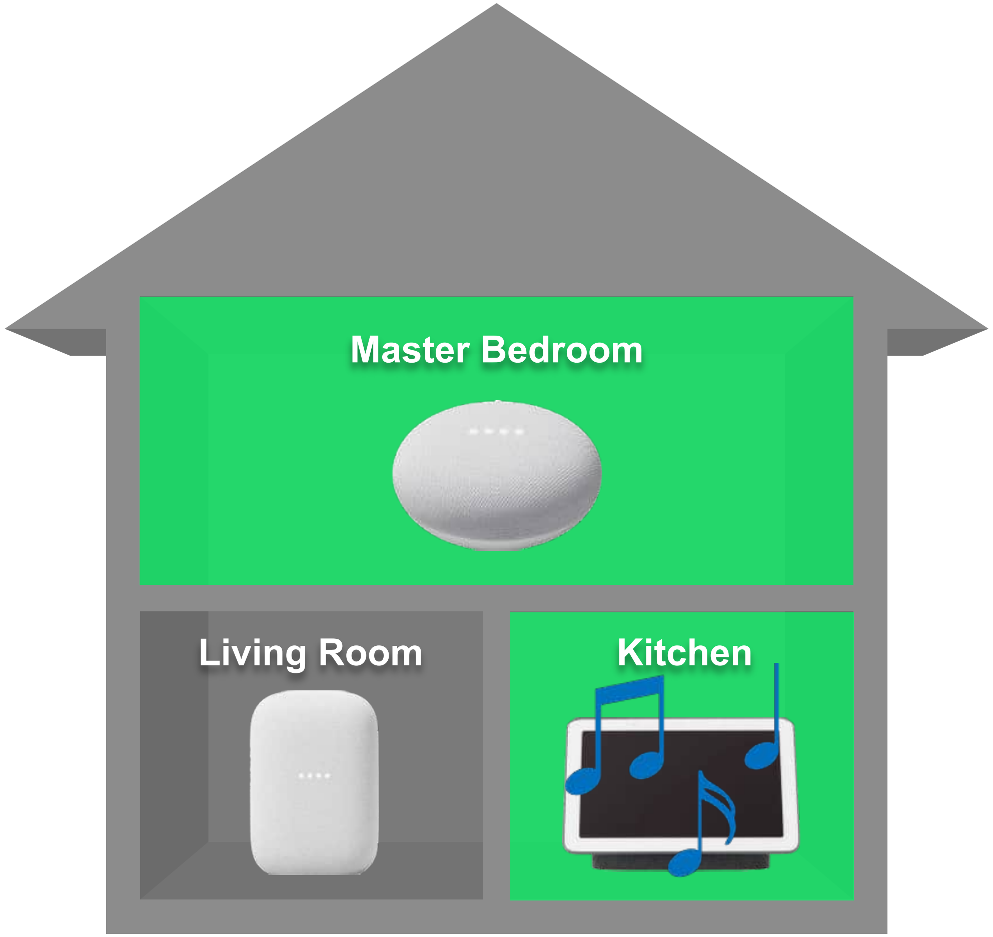

10:24

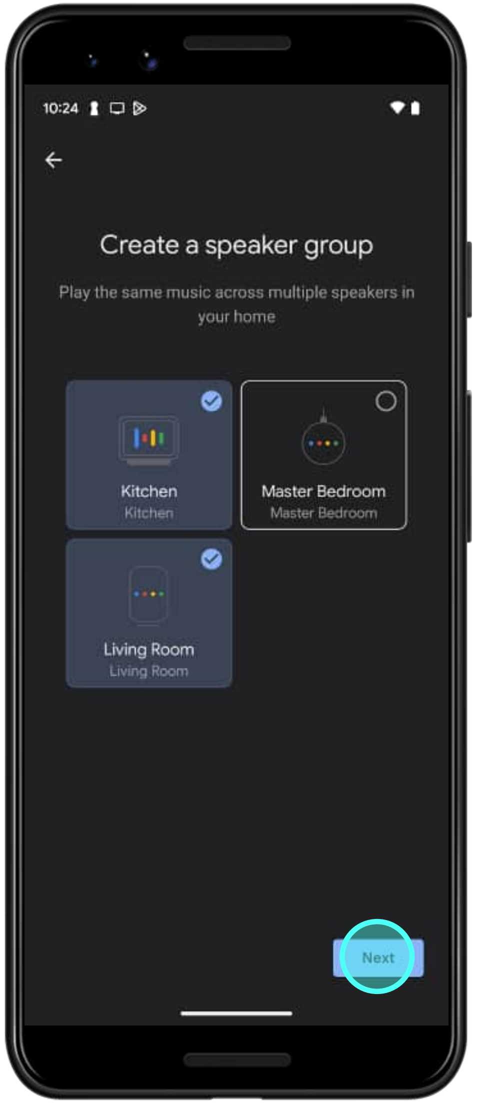
Create a speaker group

Play the same music across multiple speakers in your home

☑ Kitchen
Kitchen
○ Master Bedroom
Master Bedroom
☑ Living Room
Living Room
Next

Creating / Saving a Second Speaker Group


Master Bedroom
Living Room
Kitchen

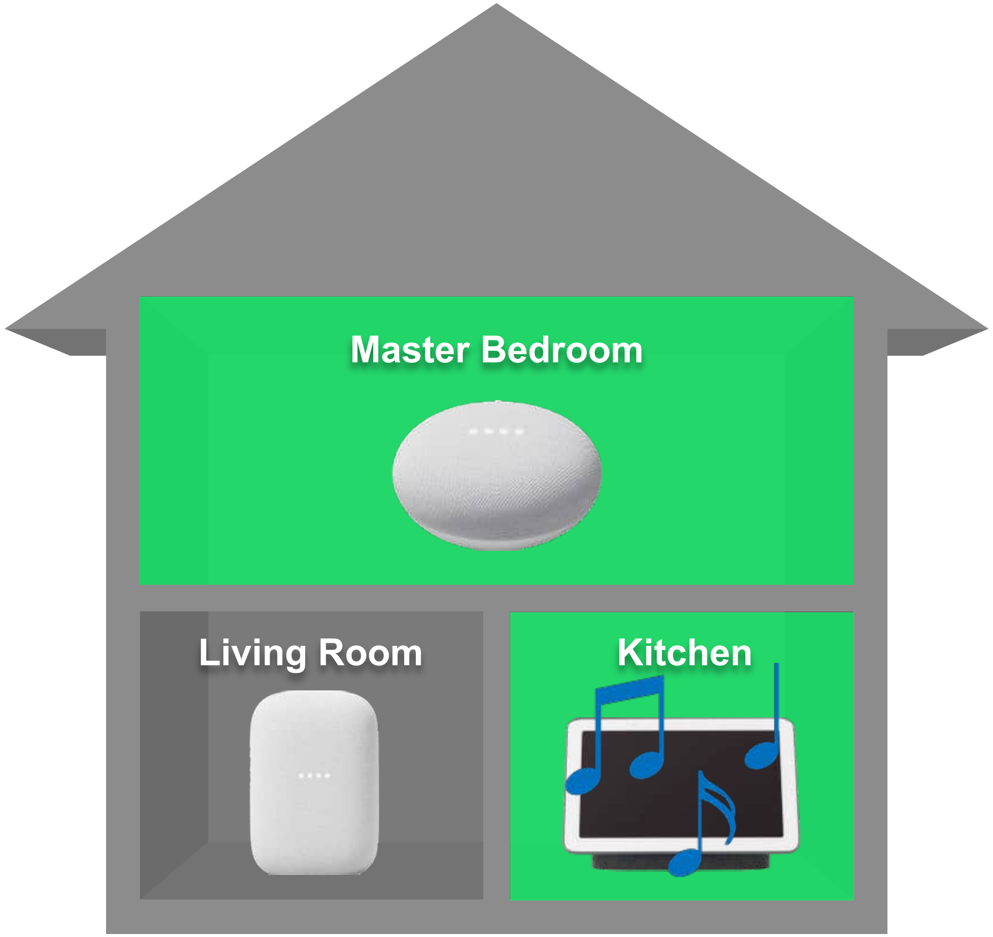

10:24

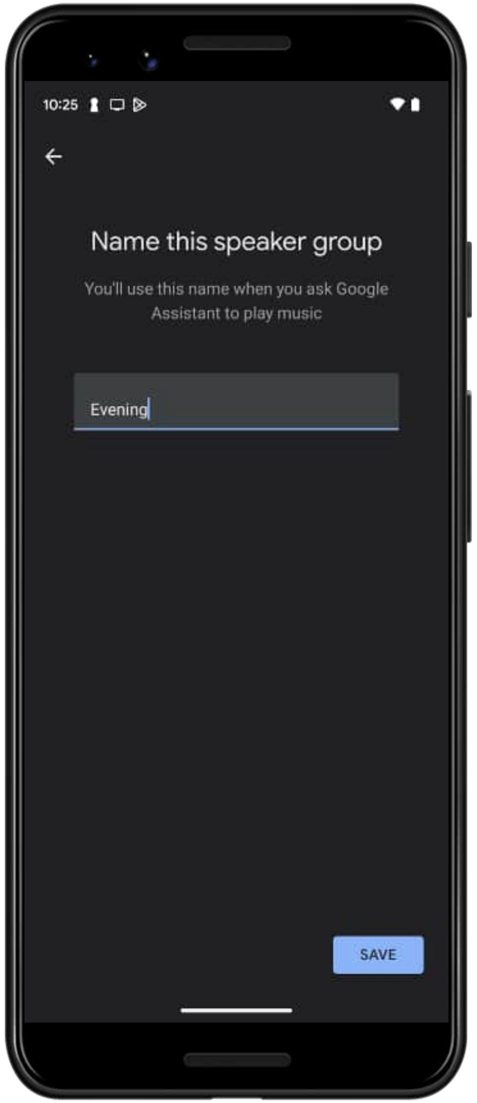
Create a speaker group

Play the same music across multiple speakers in your home

☑ Kitchen
Kitchen
○ Master Bedroom
Master Bedroom
☑ Living Room
Living Room
Next

Creating / Saving a Second Speaker Group


Master Bedroom
Living Room
Kitchen

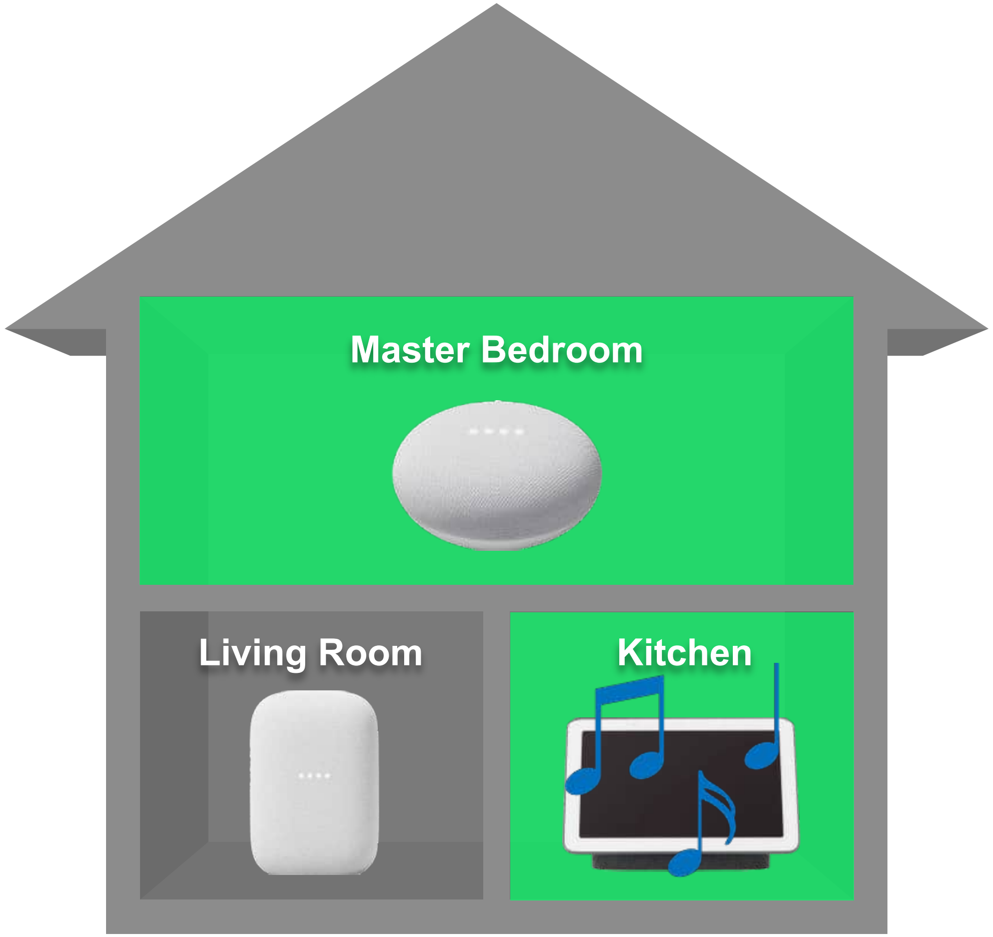


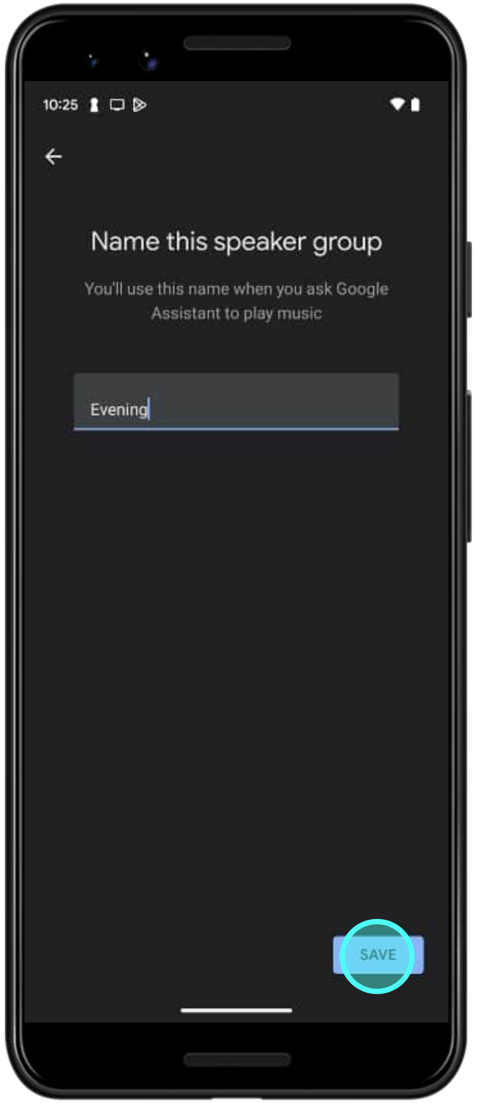
Name this speaker group

You'll use this name when you ask Google Assistant to play music

Evening

Creating / Saving a Second Speaker Group


Master Bedroom
Living Room
Kitchen

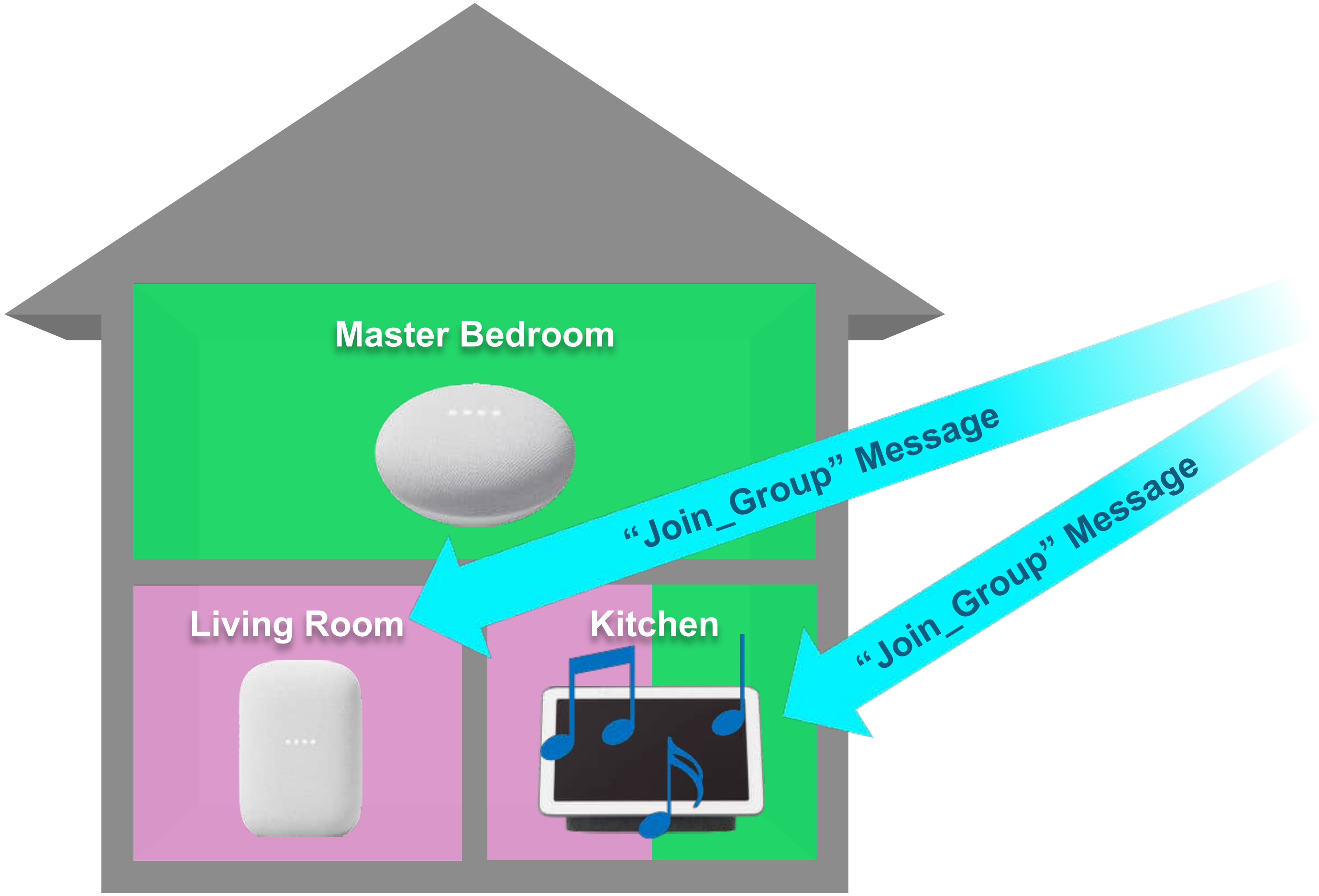


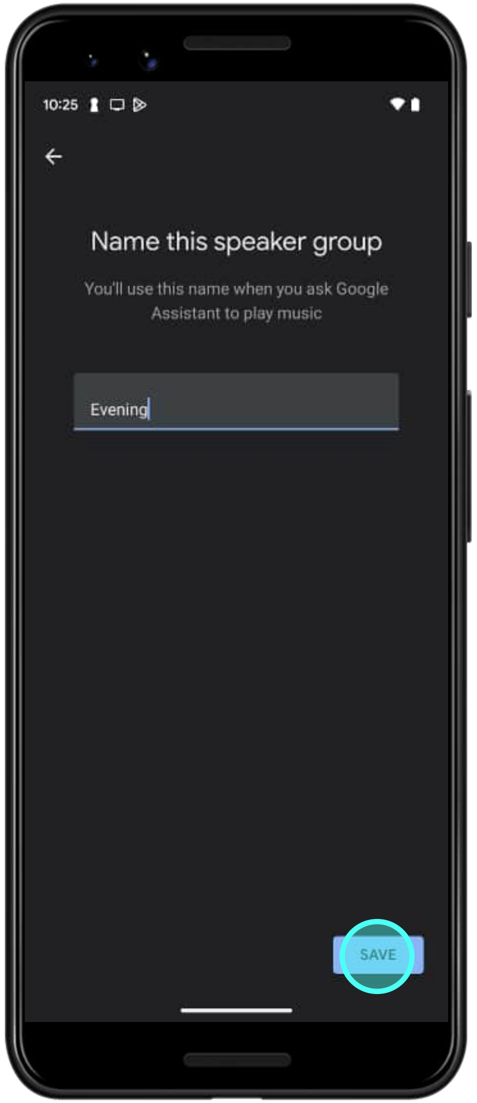
Name this speaker group

You'll use this name when you ask Google Assistant to play music

Evening

Creating / Saving a Second Speaker Group


Master Bedroom
Living Room
Kitchen
“Join_Group” Message
“Join_Group” Message

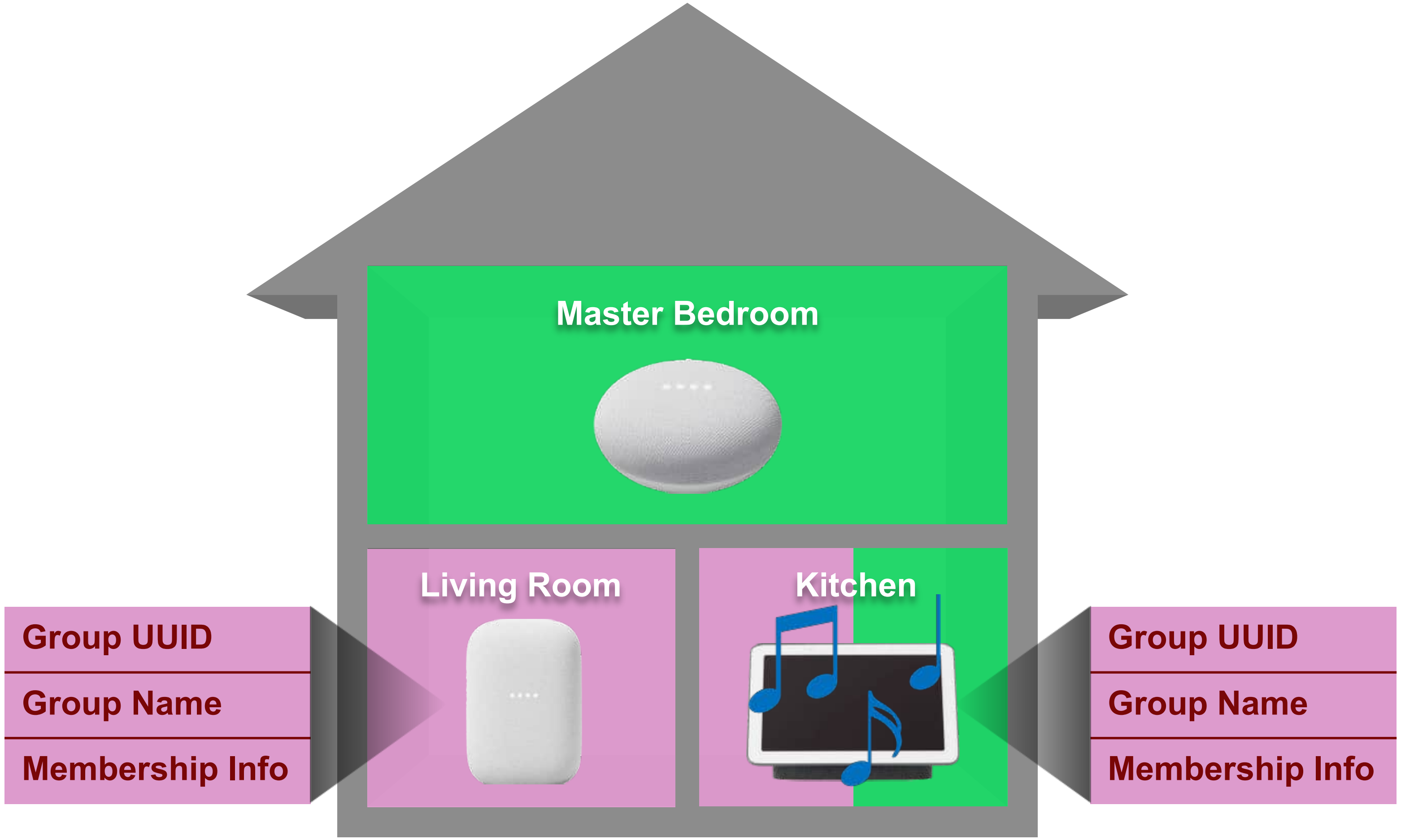


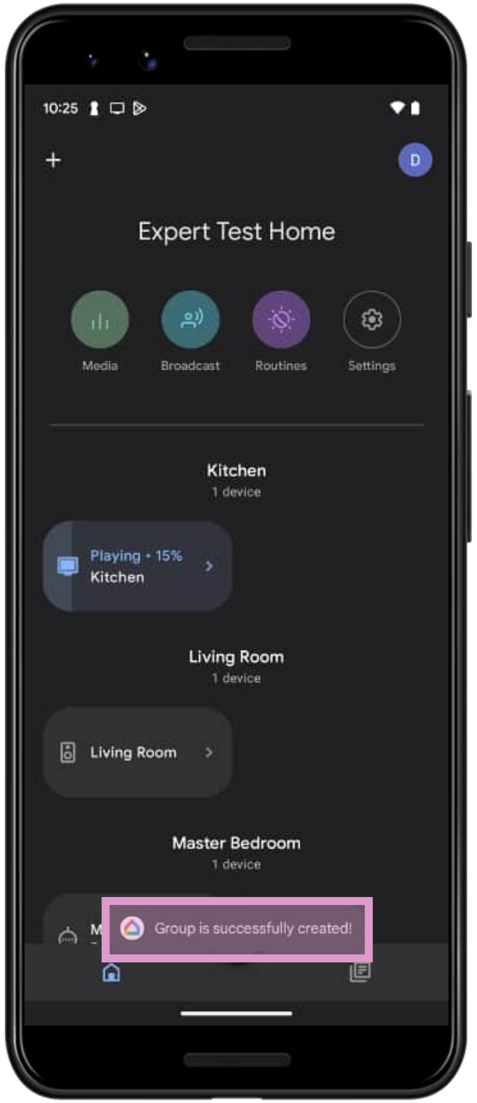
Name this speaker group

You'll use this name when you ask Google Assistant to play music

Evening

Creating / Saving a Second Speaker Group


Master Bedroom
Living Room
Kitchen
Group UUID
Group Name
Membership Info
Group UUID
Group Name
Membership Info


10:25
D
Media
Broadcast
Routines
Settings

Expert Test Home

Kitchen
1 device

Playing • 15%
Kitchen

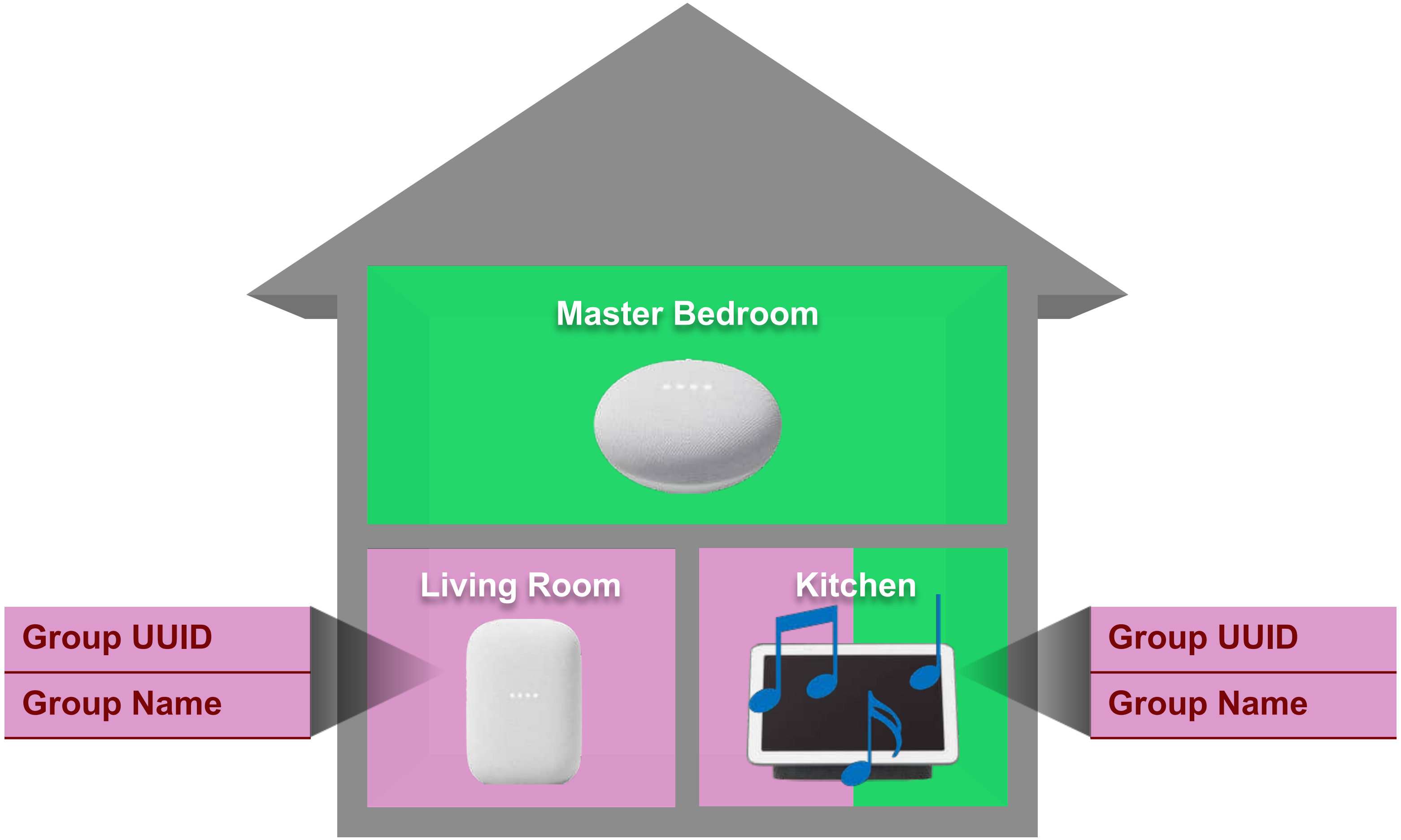
Living Room
1 device

Living Room

Master Bedroom
1 device

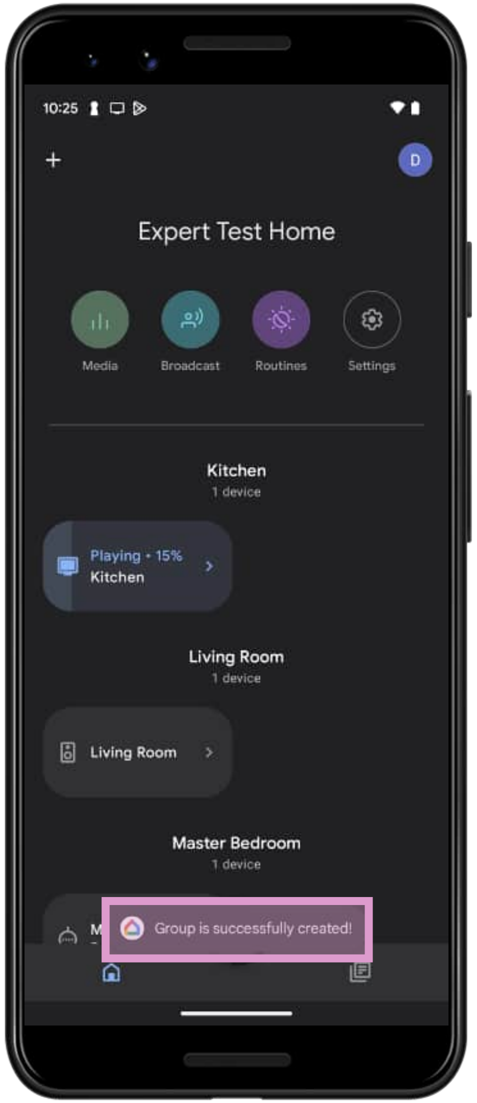
Group is successfully created!

Creating / Saving a Second Speaker Group


Master Bedroom
Living Room
Kitchen

Group UUID
Group Name

Group UUID
Group Name


10:25

Expert Test Home

Media
Broadcast
Routines
Settings

Kitchen
1 device

Playing • 15%
Kitchen

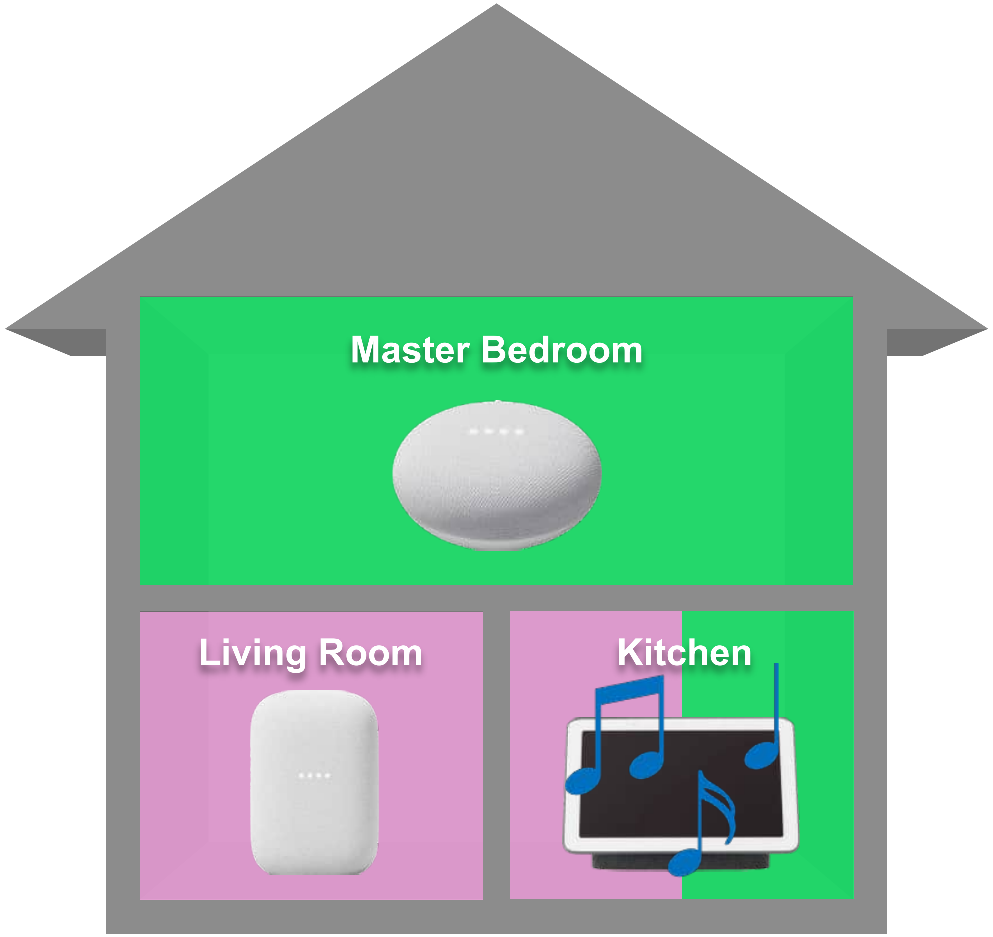
Living Room
1 device

Living Room

Master Bedroom
1 device

Group is successfully created!

Creating / Saving a Second Speaker Group


Master Bedroom
Living Room
Kitchen

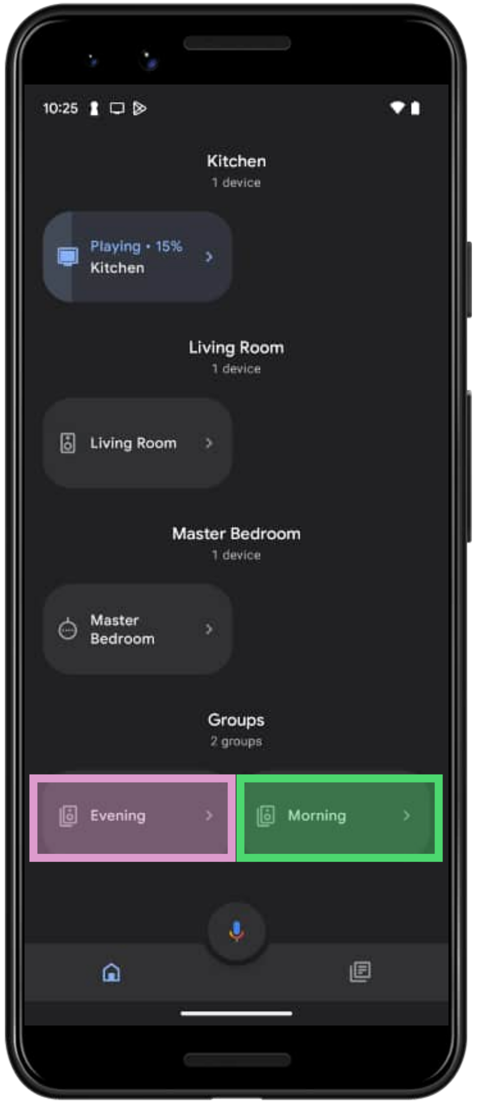

10:25
Kitchen
1 device
Playing • 15%
Kitchen
Living Room
1 device
Living Room
Master Bedroom
1 device
Master Bedroom
Groups
2 groups
Evening
Morning

EXHIBIT A - FILED UNDER SEAL

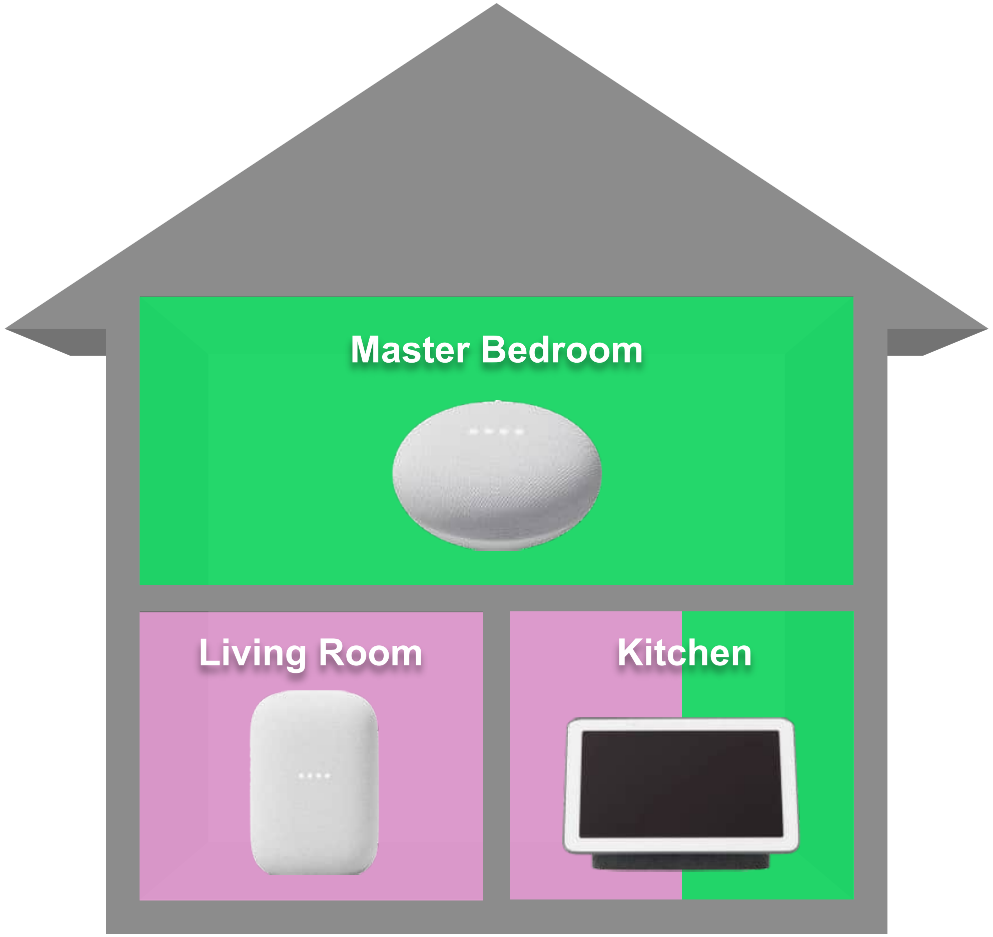
Invoking the First Speaker Group

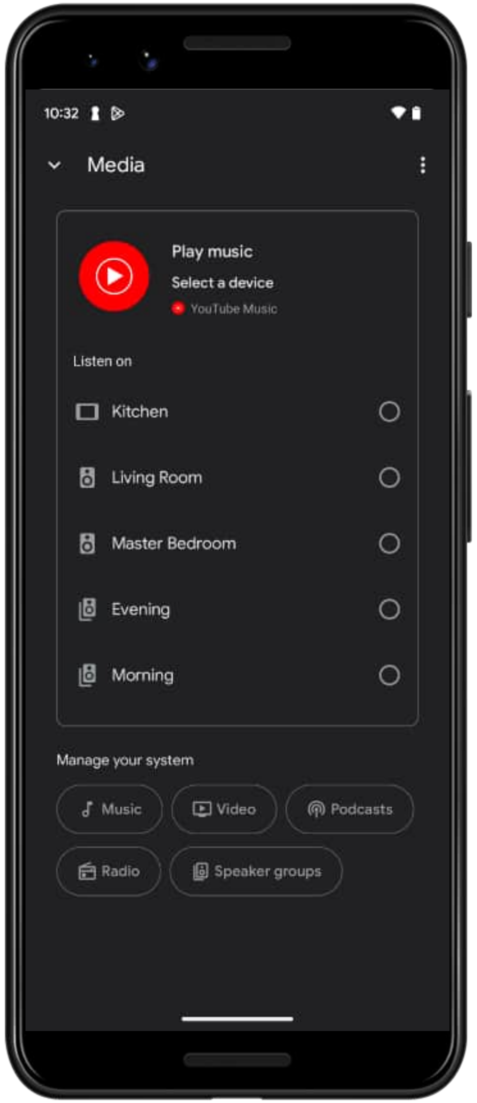
Google Home App Media Tab (No Active Playback)

Invoking the First Speaker Group

- Google’s Third Supplemental Response to Sonos’s Interrogatory No. 13
- Testimony from Google’s corporate designees
  - Kenneth MacKay
  - Justin Pedro
- Google Documents
  - “Create and manage speaker groups” [GOOG-SONOSWDTX-00007068-74]
  - “Group your Google Assistance device” [SONOS-SVG2-00055660-61]
  - “Multizone – cast_shell integration” [GOOG-SONOSWDTX-00048962-66]
  - “Cast for Audio” Initial UX Spec [GOOG-SONOSNDCA-00056732-77]
  - “Multizone Audio Design” [GOOG-SONOSWDTX-00040384-96]
- Google’s Source Code

Invoking the First Speaker Group via Google Home App


Master Bedroom
Living Room
Kitchen


10:32

Media

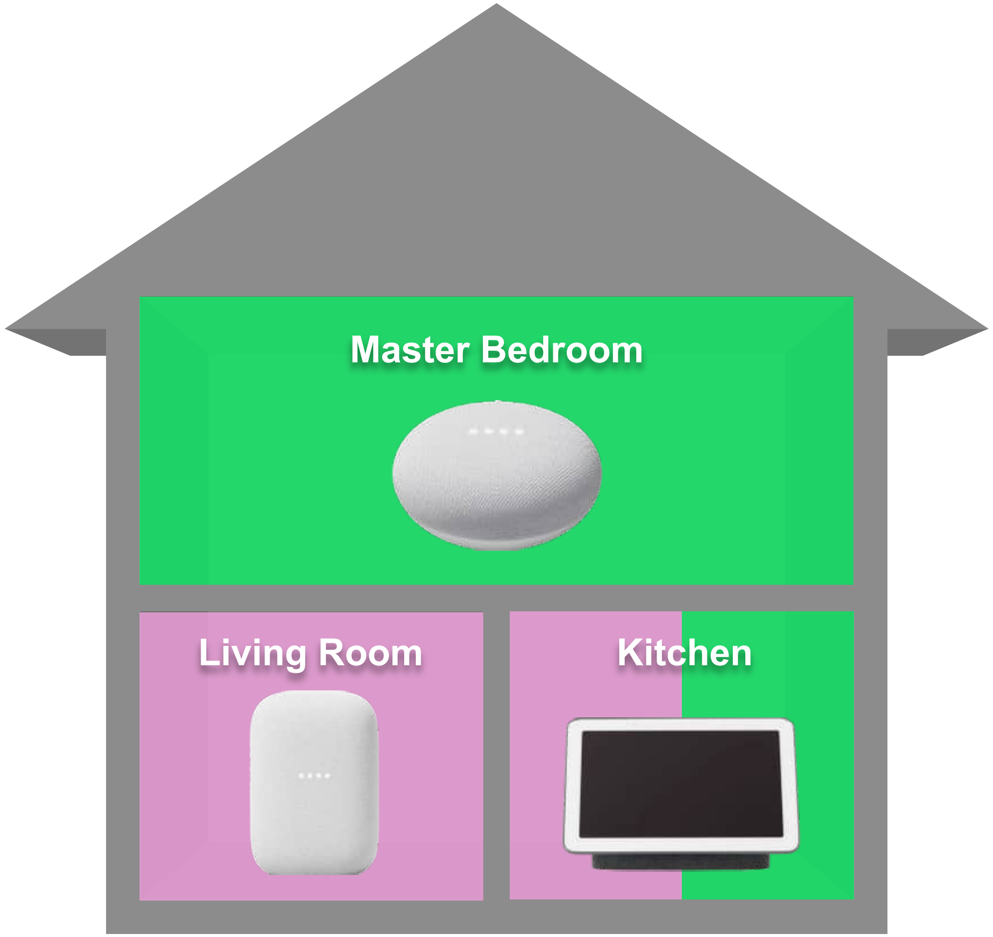
Play music
Select a device
YouTube Music

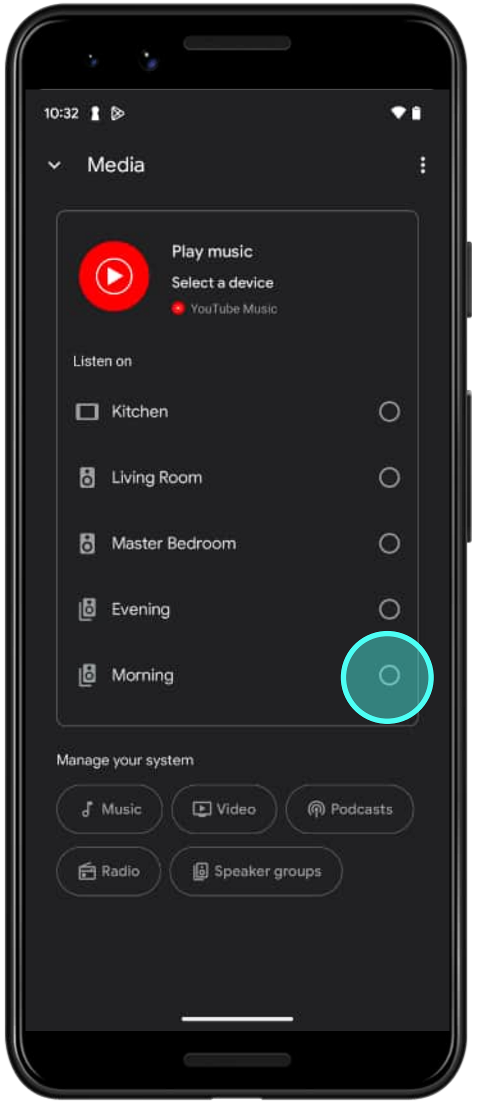
Listen on
- Kitchen ○
- Living Room ○
- Master Bedroom ○
- Evening ○
- Morning ○

Manage your system

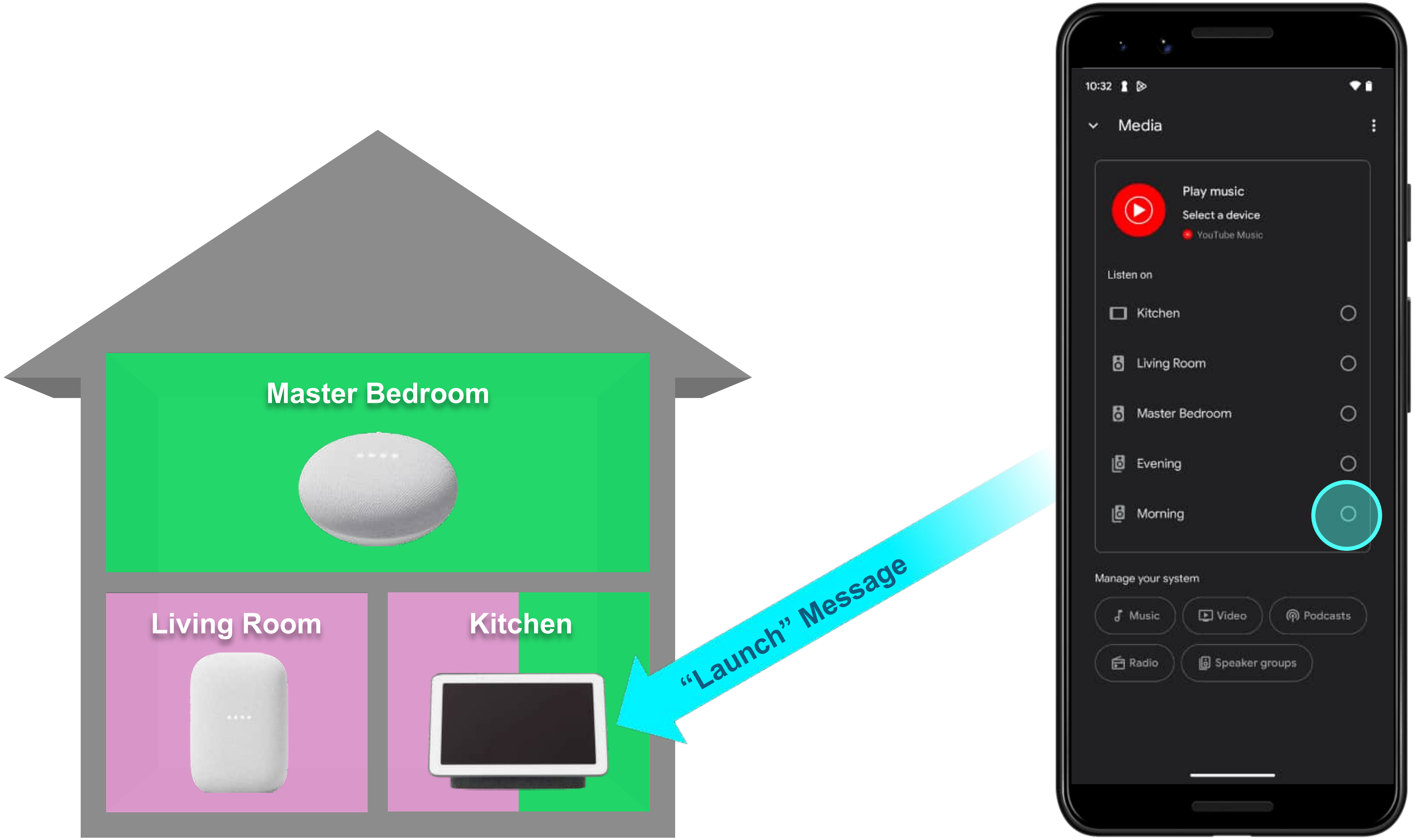
Music | Video | Podcasts | Radio | Speaker groups

Invoking the First Speaker Group via Google Home App

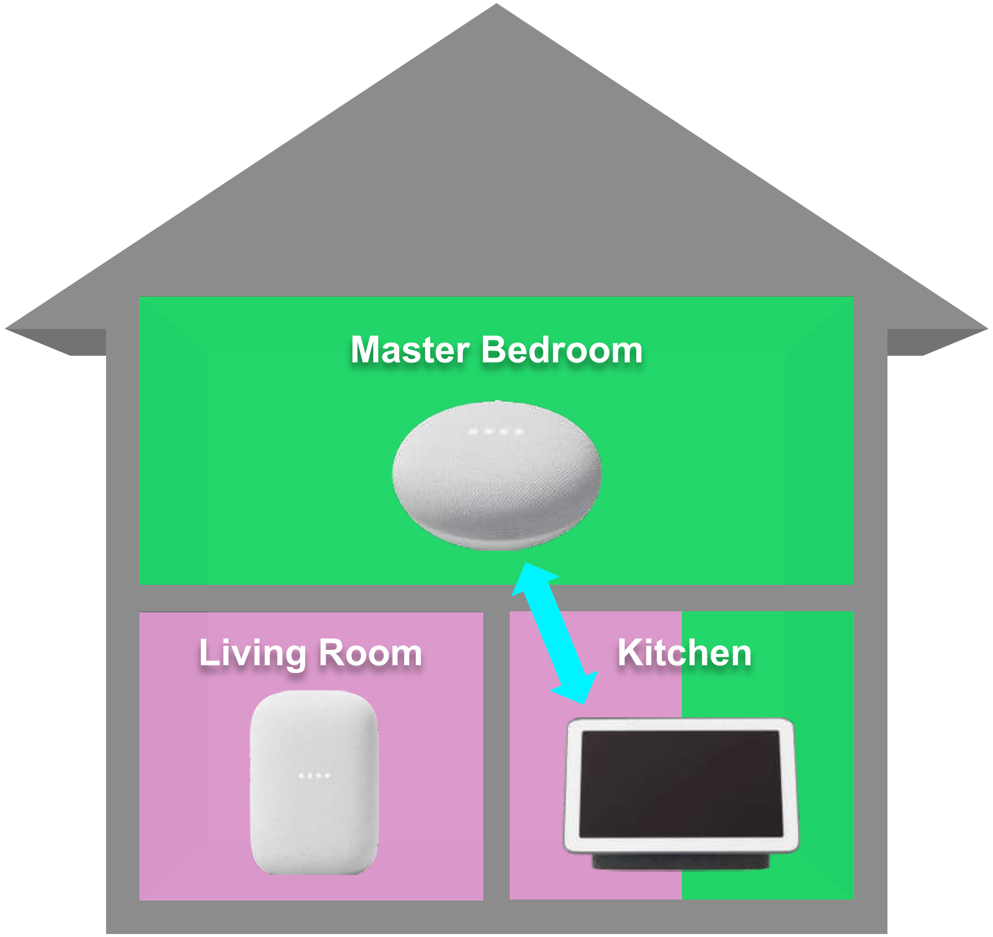

Master Bedroom
Living Room
Kitchen

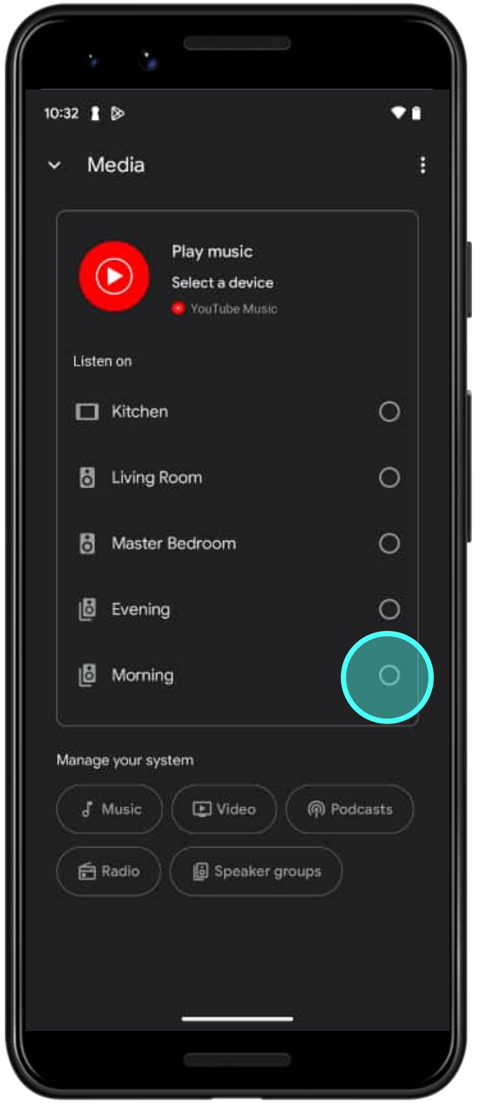

10:32
Media
Play music
Select a device
YouTube Music
Listen on
Kitchen ○
Living Room ○
Master Bedroom ○
Evening ○
Morning ○
Manage your system
Music
Video
Podcasts
Radio
Speaker groups

Invoking the First Speaker Group via Google Home App


Master Bedroom
Living Room
Kitchen
"Launch" Message
10:32
Media
Play music
Select a device
YouTube Music
Listen on
Kitchen ○
Living Room ○
Master Bedroom ○
Evening ○
Morning ○
Manage your system
Music
Video
Podcasts
Radio
Speaker groups

Invoking the First Speaker Group via Google Home App


Master Bedroom
Living Room
Kitchen


10:32
Media
Play music
Select a device
YouTube Music
Listen on
Kitchen ○
Living Room ○
Master Bedroom ○
Evening ○
Morning ○
Manage your system
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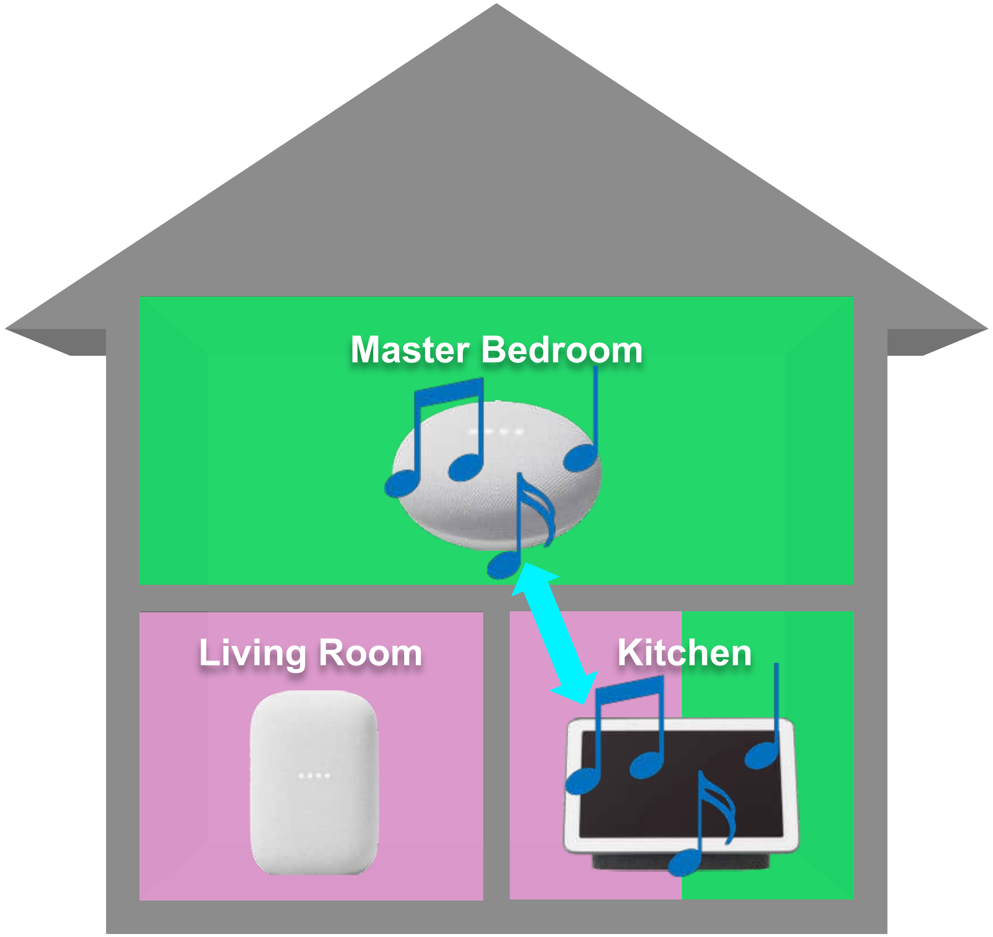
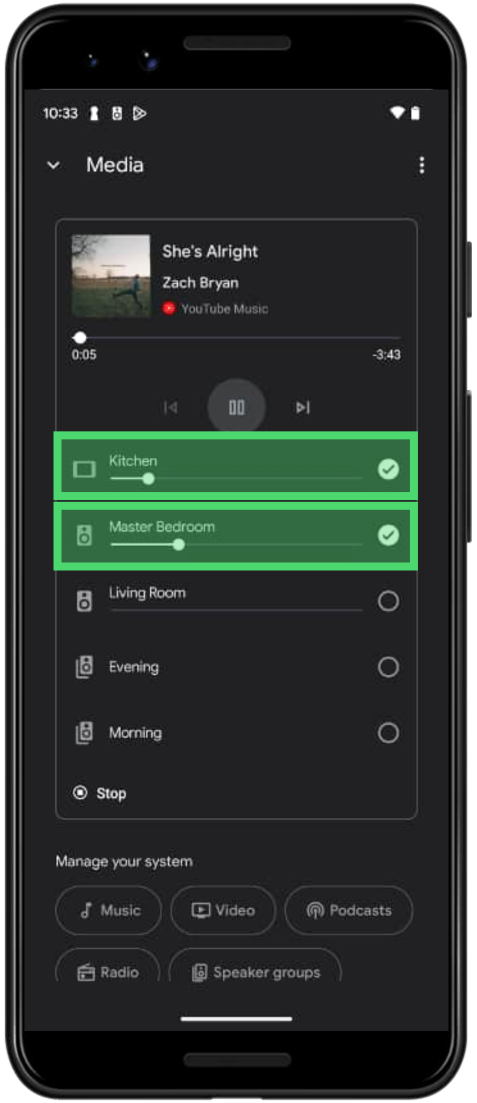
Podcasts
Radio
Speaker groups

Invoking the First Speaker Group via Google Home App


Master Bedroom
Living Room
Kitchen


10:33
Media
She's Alright
Zach Bryan
YouTube Music
0:05
-3:43
Kitchen ✓
Master Bedroom ✓
Living Room ○
Evening ○
Morning ○
Stop
Manage your system
Music
Video
Podcasts
Radio
Speaker groups

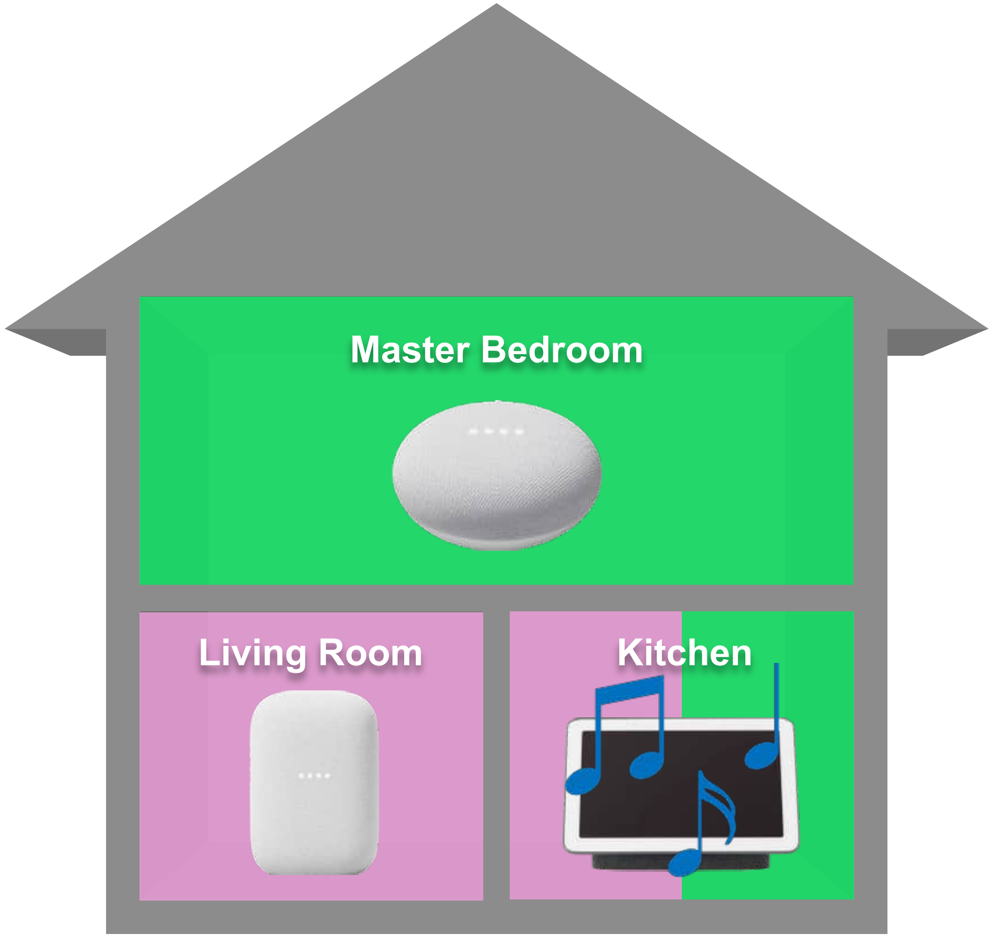
Invoking the First Speaker Group

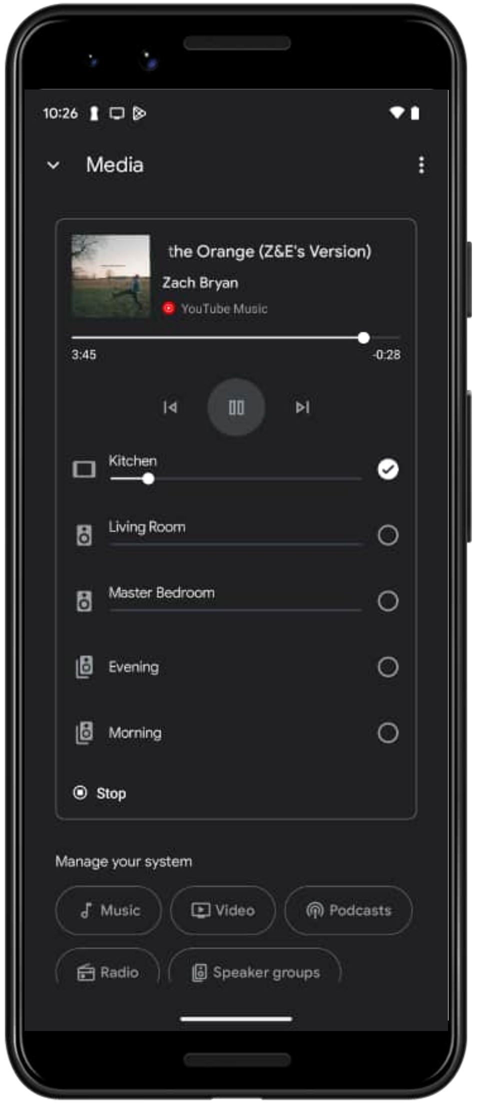
Google Home App Media Tab (Active Playback on Kitchen)

Invoking the First Speaker Group

- Google's Third Supplemental Response to Sonos's Interrogatory No. 13
- Testimony from Google's corporate designees
  - Kenneth MacKay
  - Justin Pedro
- Google Documents
  - "Create and manage speaker groups" [GOOG-SONOSWDTX-00007068-74]
  - "Group your Google Assistance device" [SONOS-SVG2-00055660-61]
  - "Multizone – cast_shell integration" [GOOG-SONOSWDTX-00048962-66]
  - "Cast for Audio" Initial UX Spec [GOOG-SONOSNDCA-00056732-77]
  - "Multizone Audio Design" [GOOG-SONOSWDTX-00040384-96]
- Google's Source Code

Invoking the First Speaker Group via Google Home App


Master Bedroom
Living Room
Kitchen



10:26
Media

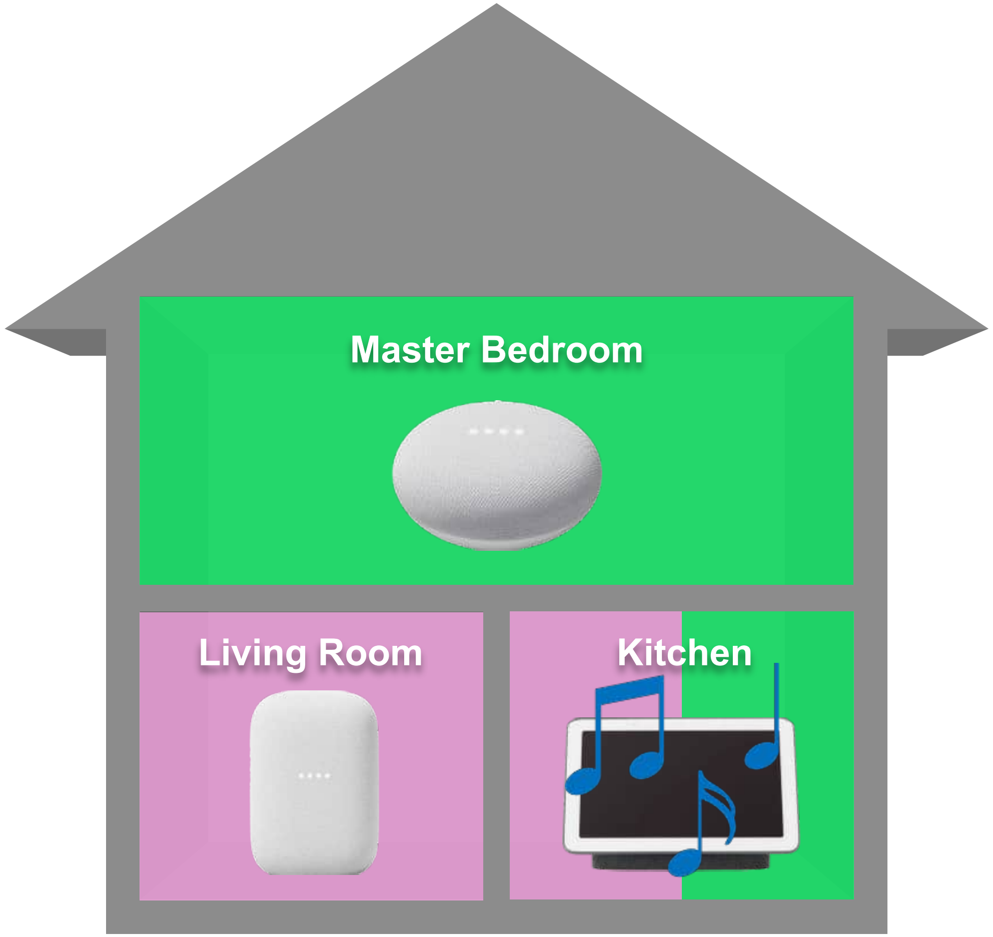
the Orange (Z&E's Version)
Zach Bryan
YouTube Music

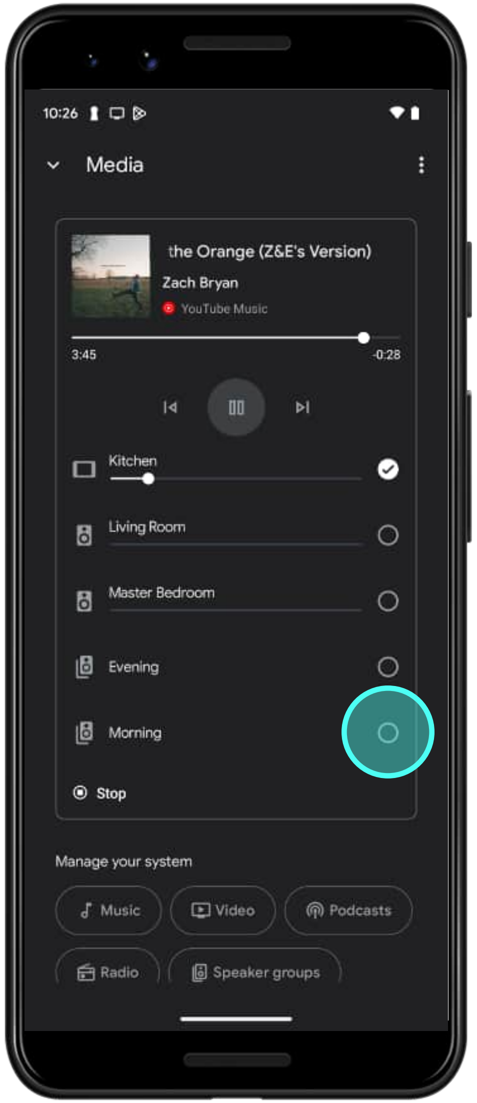
3:45 -0:28

Kitchen ✓
Living Room ○
Master Bedroom ○
Evening ○
Morning ○

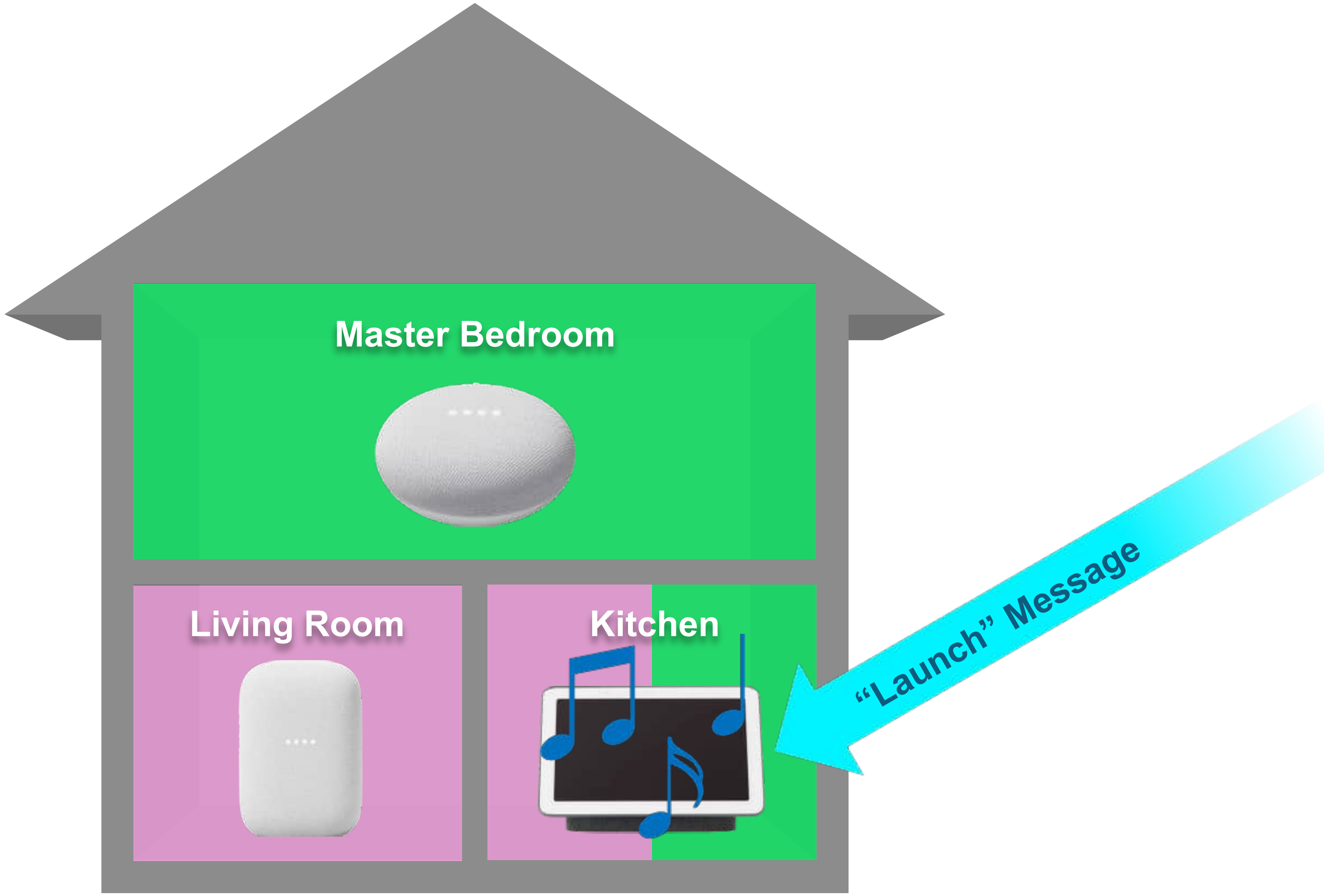
Stop
Manage your system
Music
Video
Podcasts
Radio
Speaker groups

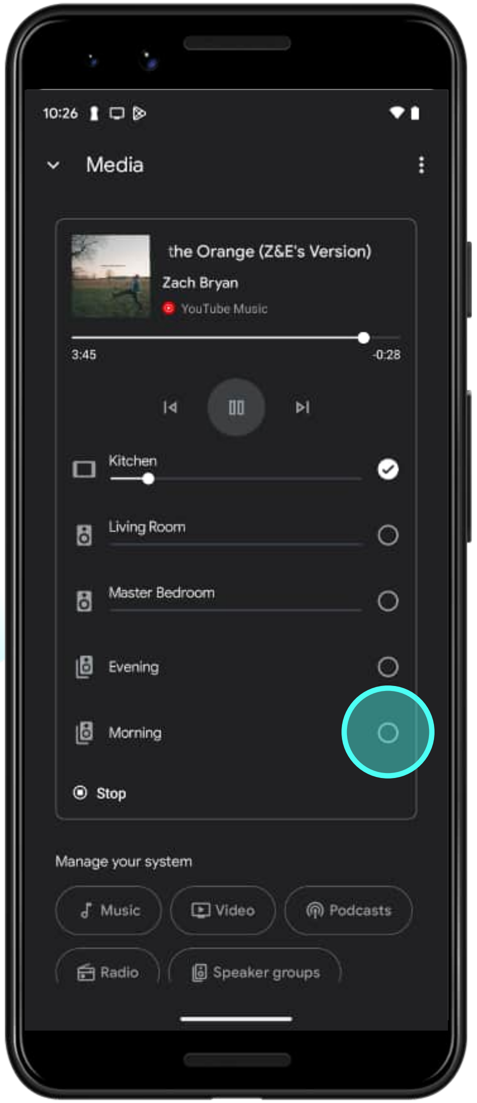
Invoking the First Speaker Group via Google Home App


Master Bedroom
Living Room
Kitchen

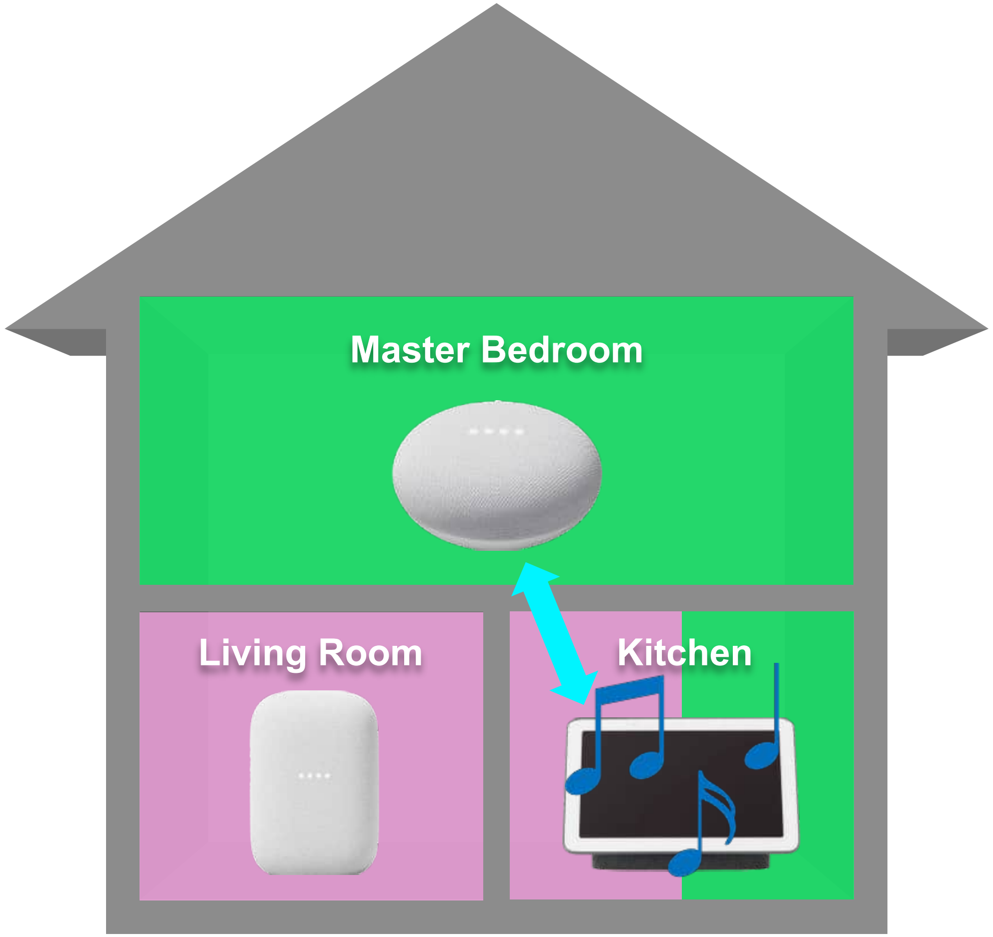

10:26
Media
the Orange (Z&E's Version)
Zach Bryan
YouTube Music
3:45
-0:28
Kitchen ✓
Living Room ○
Master Bedroom ○
Evening ○
Morning ○
Stop
Manage your system
Music
Video
Podcasts
Radio
Speaker groups

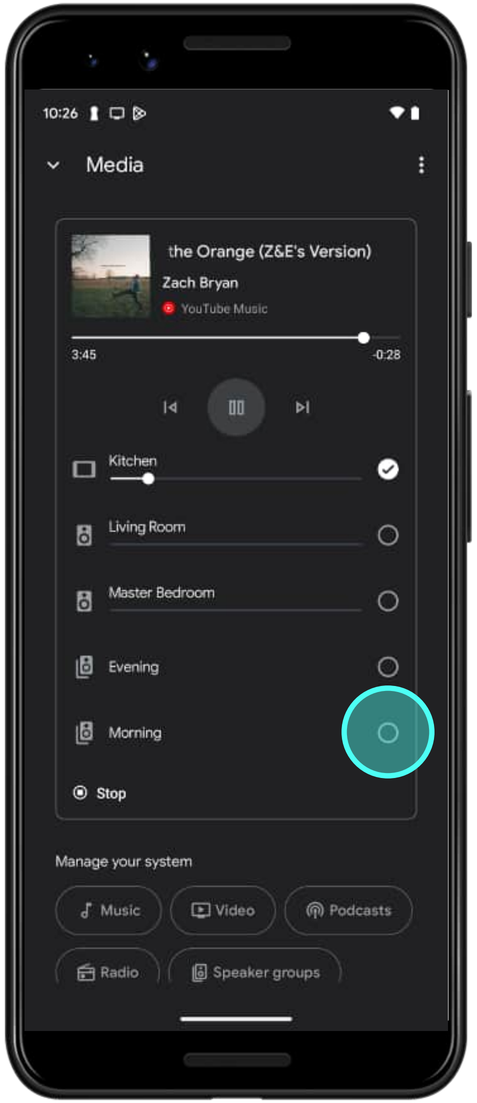
Invoking the First Speaker Group via Google Home App


Master Bedroom
Living Room
Kitchen
"Launch" Message


10:26
Media
the Orange (Z&E's Version)
Zach Bryan
YouTube Music
3:45
-0:28
Kitchen
Living Room
Master Bedroom
Evening
Morning
Stop
Manage your system
Music
Video
Podcasts
Radio
Speaker groups

Invoking the First Speaker Group via Google Home App


Master Bedroom
Living Room
Kitchen


10:26

Media

the Orange (Z&E's Version)
Zach Bryan
YouTube Music

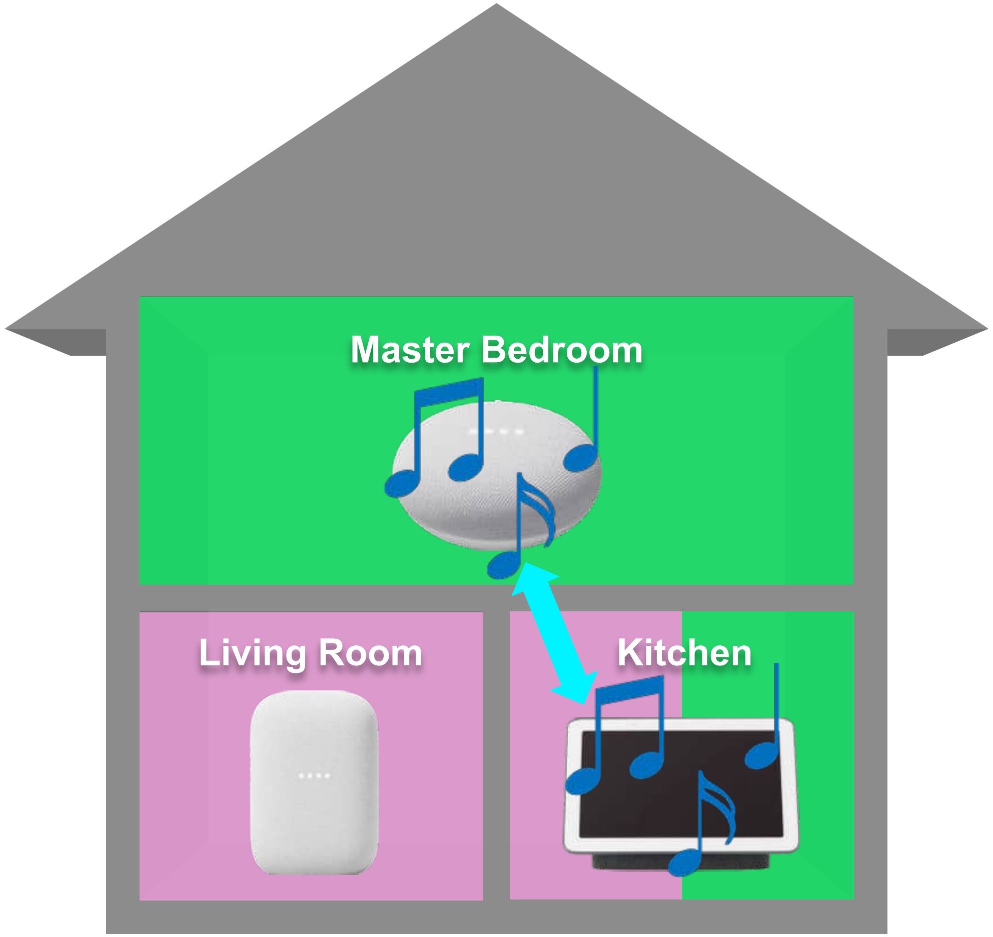
3:45 -0:28

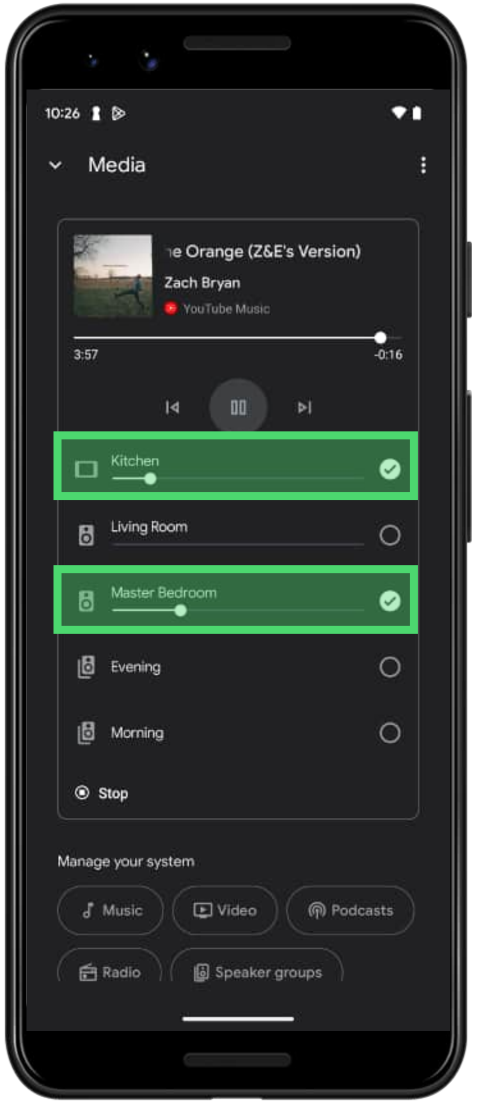
Kitchen ✓
Living Room ○
Master Bedroom ○
Evening ○
Morning ○
Stop

Manage your system

Music
Video
Podcasts
Radio
Speaker groups

Invoking the First Speaker Group via Google Home App


Master Bedroom
Living Room
Kitchen


10:26

Media

e Orange (Z&E's Version)
Zach Bryan
YouTube Music

3:57 -0:16

Kitchen ✓
Living Room ○
Master Bedroom ✓
Evening ○
Morning ○
Stop

Manage your system

Music
Video
Podcasts
Radio
Speaker groups

EXHIBIT A - FILED UNDER SEAL

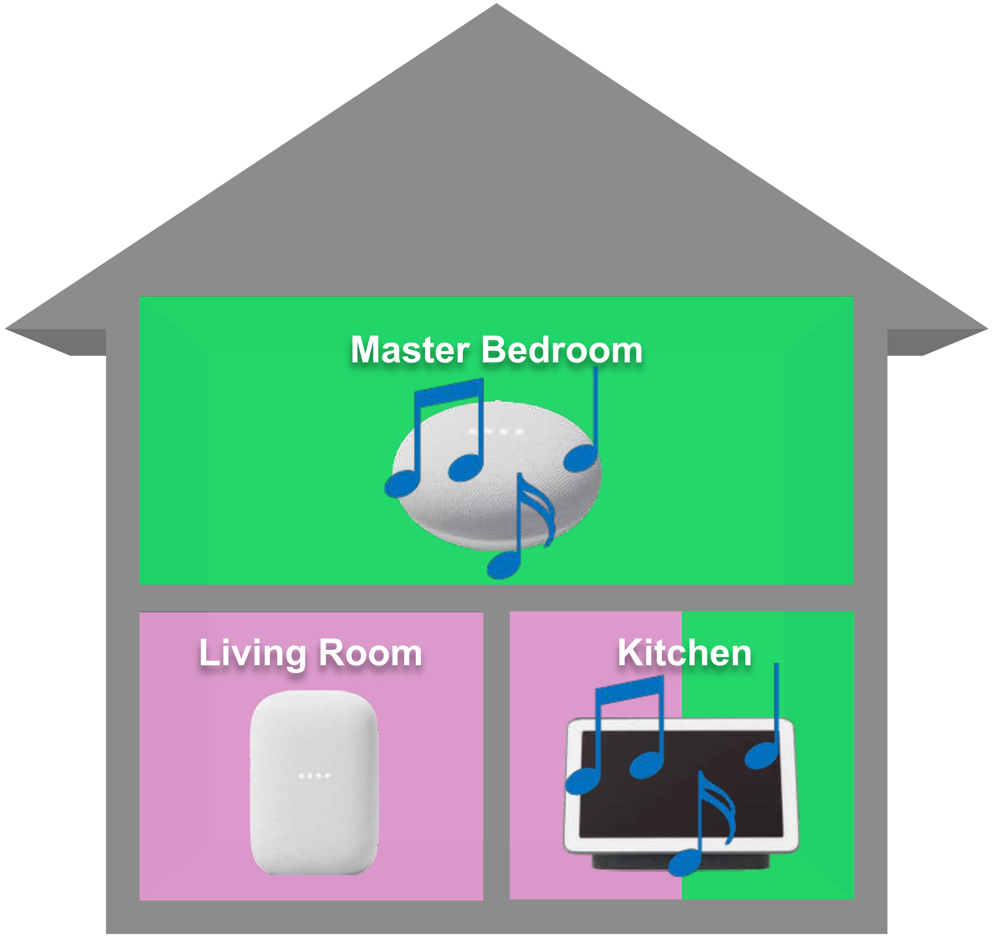
Invoking the Second Speaker Group

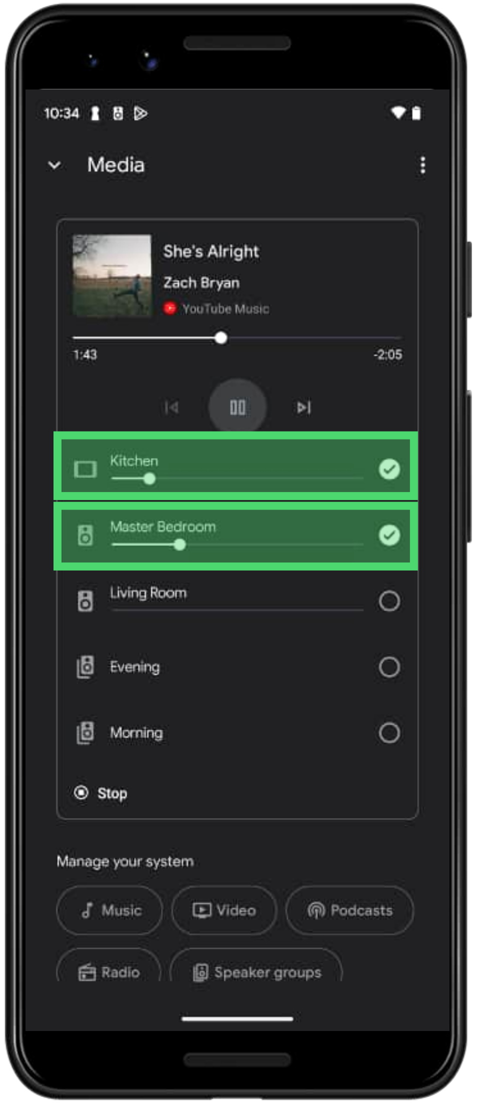
Google Home App Media Tab (Active Playback on Morning Group)

Invoking the Second Speaker Group

- Google’s Third Supplemental Response to Sonos’s Interrogatory No. 13
- Testimony from Google’s corporate designees
  - ➢ Kenneth MacKay
  - ➢ Justin Pedro
- Google Documents
  - ➢ “Create and manage speaker groups” [GOOG-SONOSWDTX-00007068-74]
  - ➢ “Group your Google Assistance device” [SONOS-SVG2-00055660-61]
  - ➢ “Multizone – cast_shell integration” [GOOG-SONOSWDTX-00048962-66]
  - ➢ “Cast for Audio” Initial UX Spec [GOOG-SONOSNDCA-00056732-77]
  - ➢ “Multizone Audio Design” [GOOG-SONOSWDTX-00040384-96]
- Google’s Source Code

Invoking the Second Speaker Group via Google Home App


Master Bedroom
Living Room
Kitchen


10:34

Media

She's Alright
Zach Bryan
YouTube Music

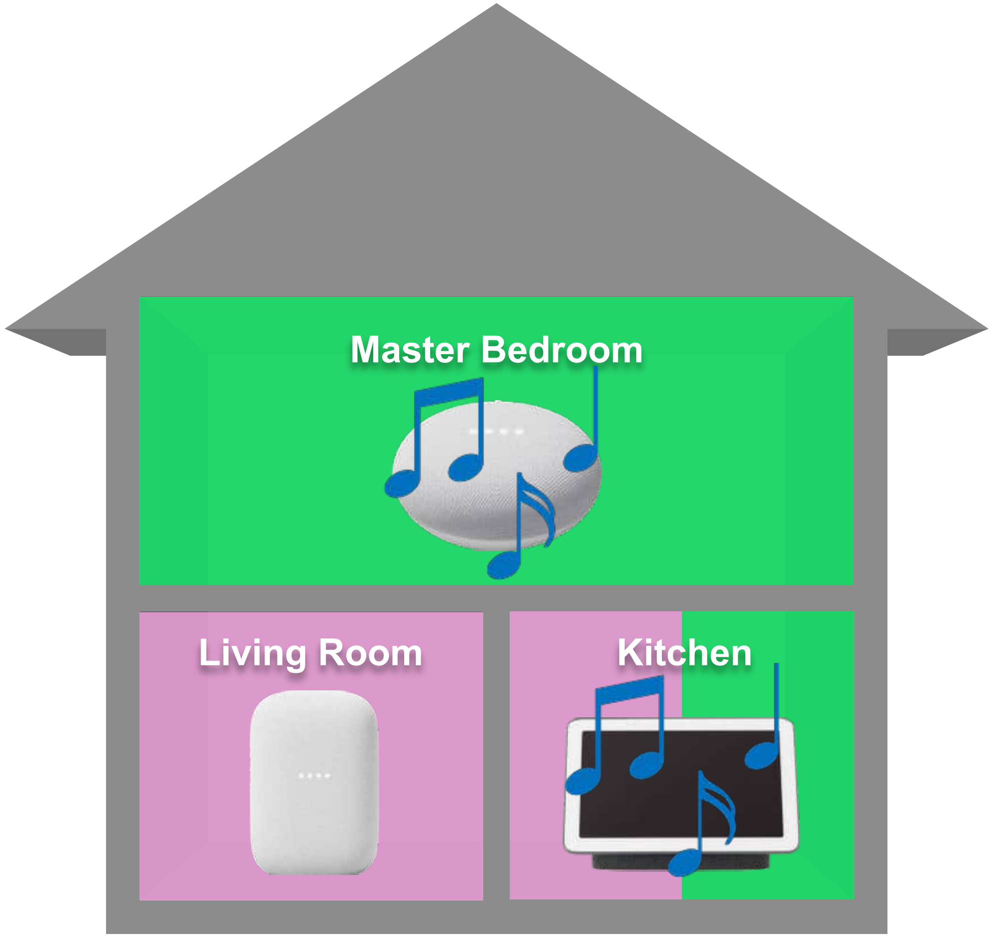
1:43 -2:05

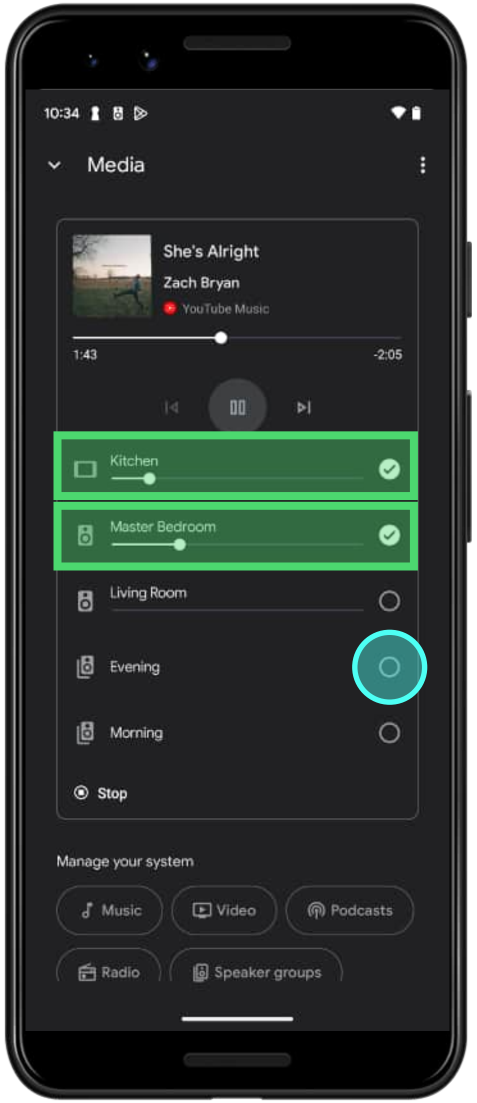
- Kitchen ✓
- Master Bedroom ✓
- Living Room ○
- Evening ○
- Morning ○

Stop
Manage your system
Music
Video
Podcasts
Radio
Speaker groups

EXHIBIT A - FILED UNDER SEAL

Invoking the Second Speaker Group via Google Home App


Master Bedroom
Living Room
Kitchen


10:34
Media

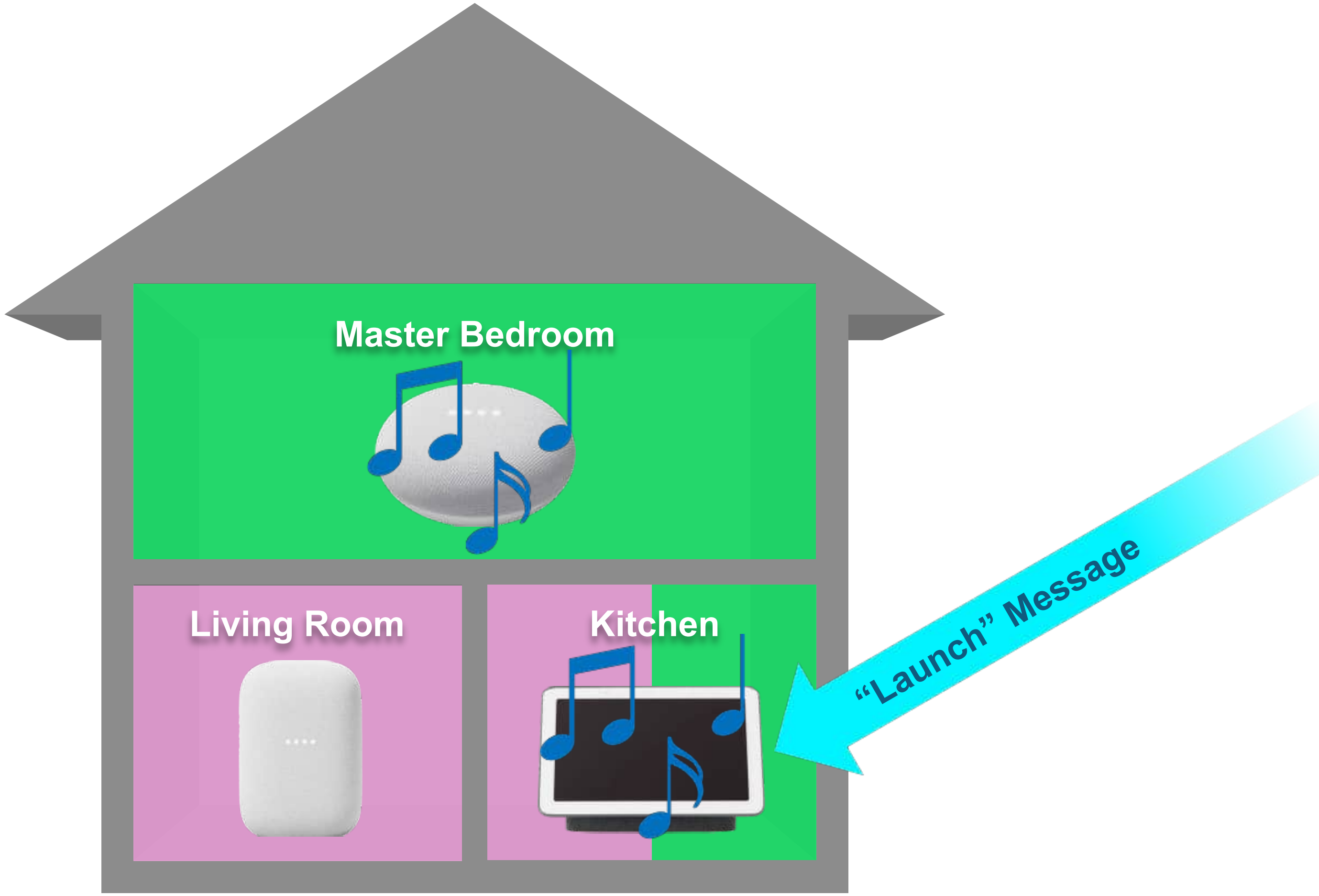
She's Alright
Zach Bryan
YouTube Music

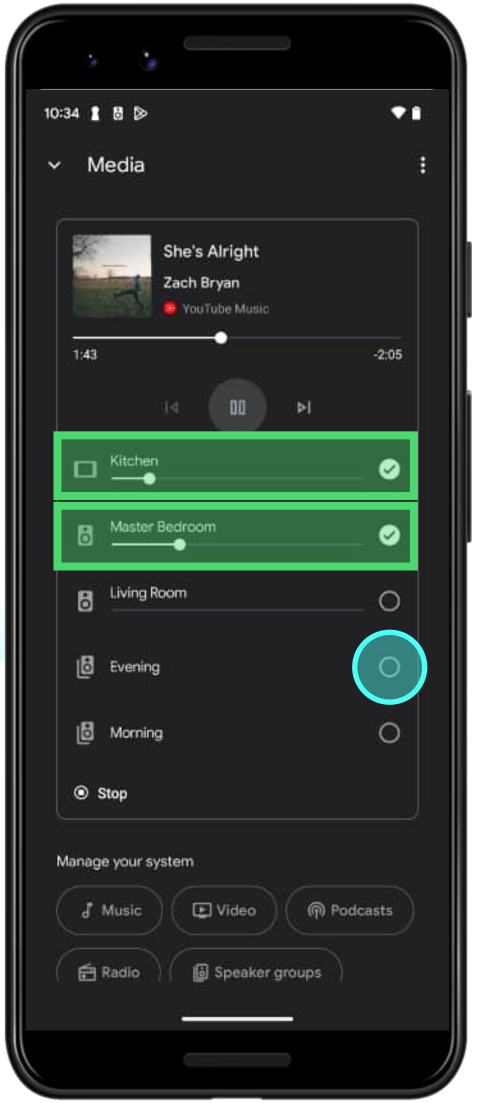
1:43 -2:05

- Kitchen ✓
- Master Bedroom ✓
- Living Room ○
- Evening ○
- Morning ○

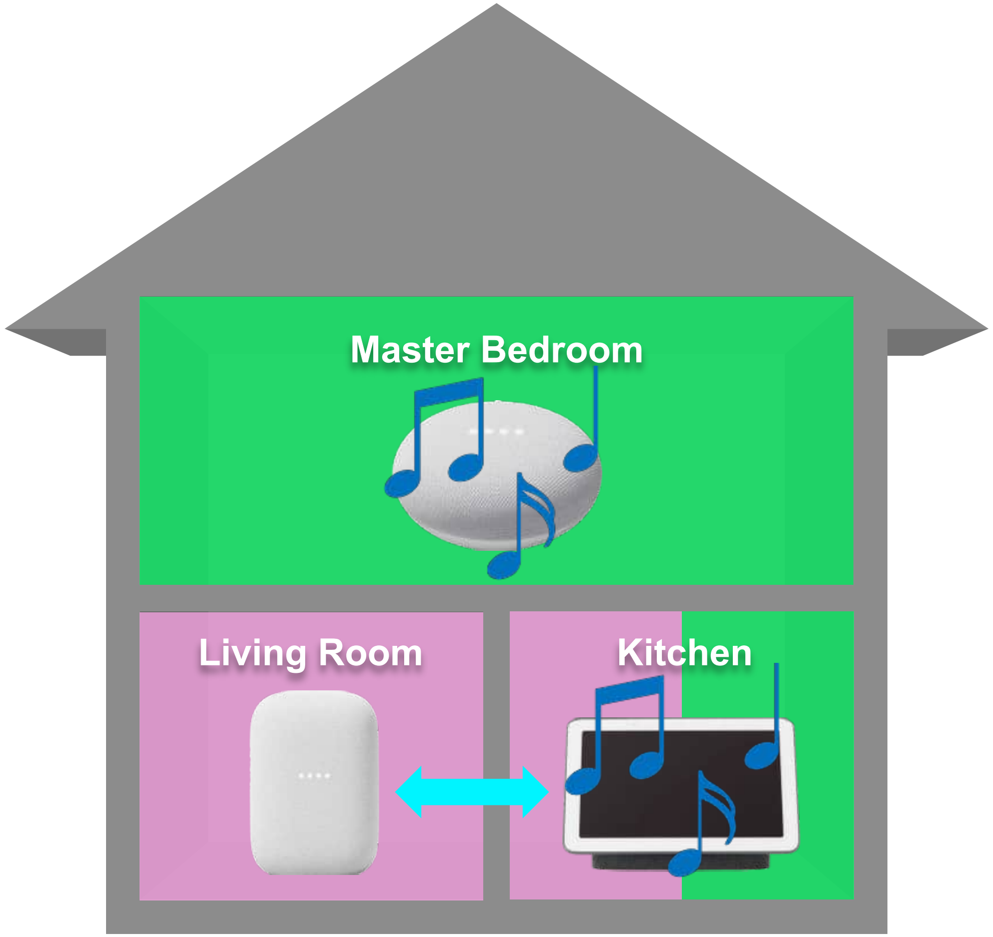
Stop
Manage your system
Music
Video
Podcasts
Radio
Speaker groups

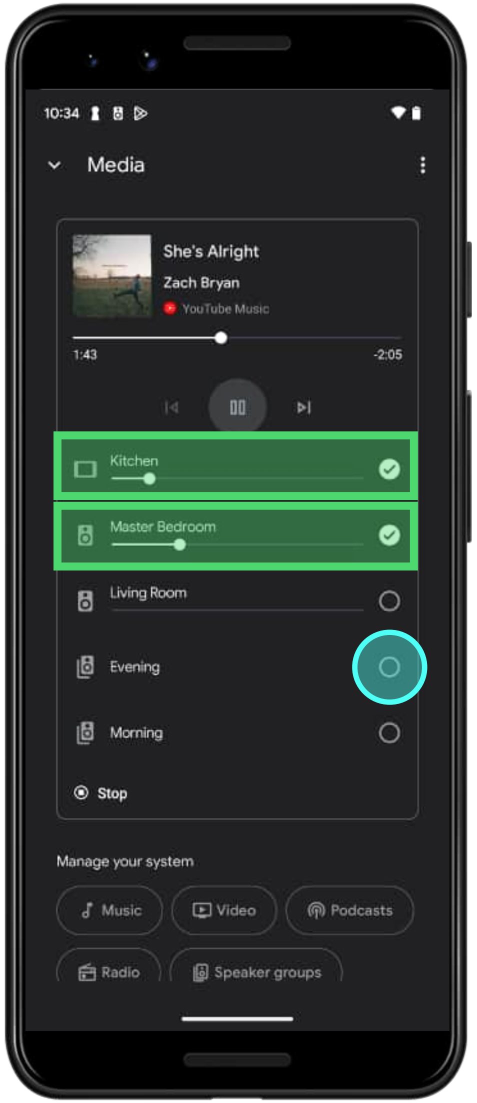
Invoking the Second Speaker Group via Google Home App


Master Bedroom
Living Room
Kitchen
"Launch" Message


10:34
Media
She's Alright
Zach Bryan
YouTube Music
1:43
-2:05
Kitchen
Master Bedroom
Living Room
Evening
Morning
Stop
Manage your system
Music
Video
Podcasts
Radio
Speaker groups

Invoking the Second Speaker Group via Google Home App


Master Bedroom
Living Room
Kitchen



10:34

Media

She's Alright
Zach Bryan
YouTube Music

1:43 -2:05

☑ Kitchen

☑ Master Bedroom

○ Living Room

○ Evening

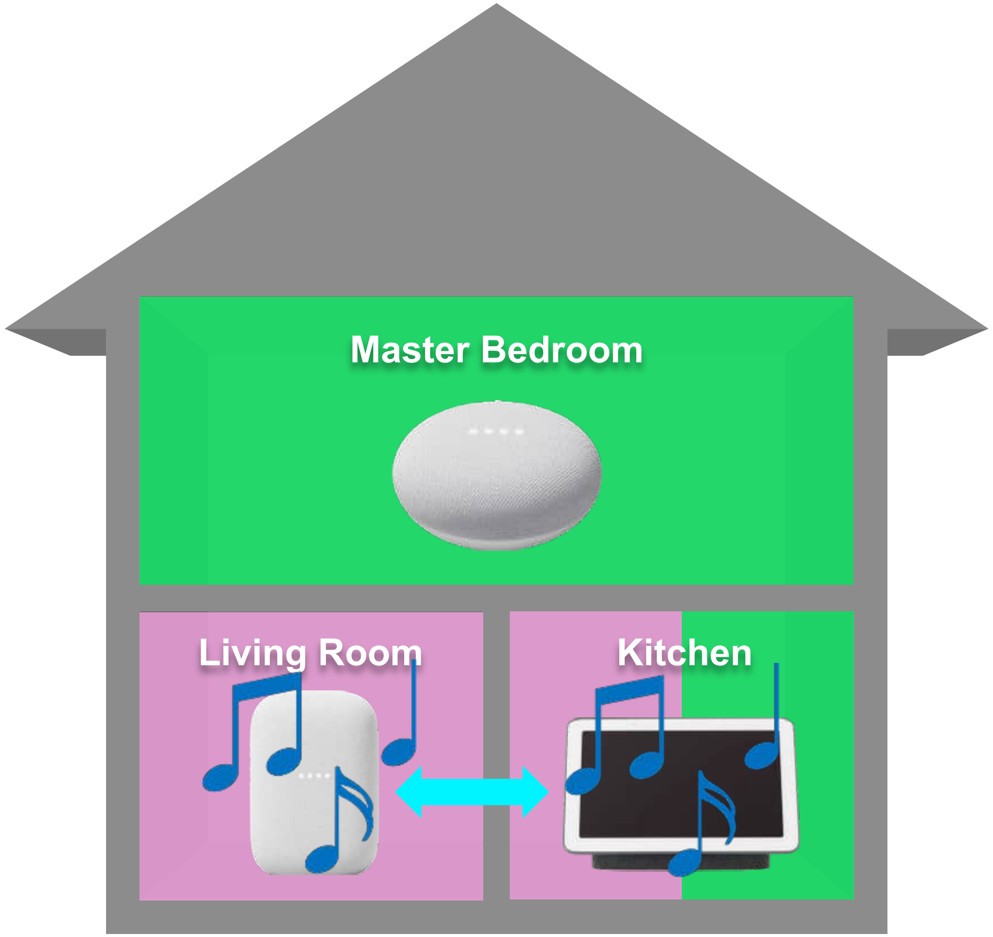
○ Morning

Stop

Manage your system

Music
Video
Podcasts
Radio
Speaker groups

Invoking the Second Speaker Group via Google Home App


Master Bedroom
Living Room
Kitchen

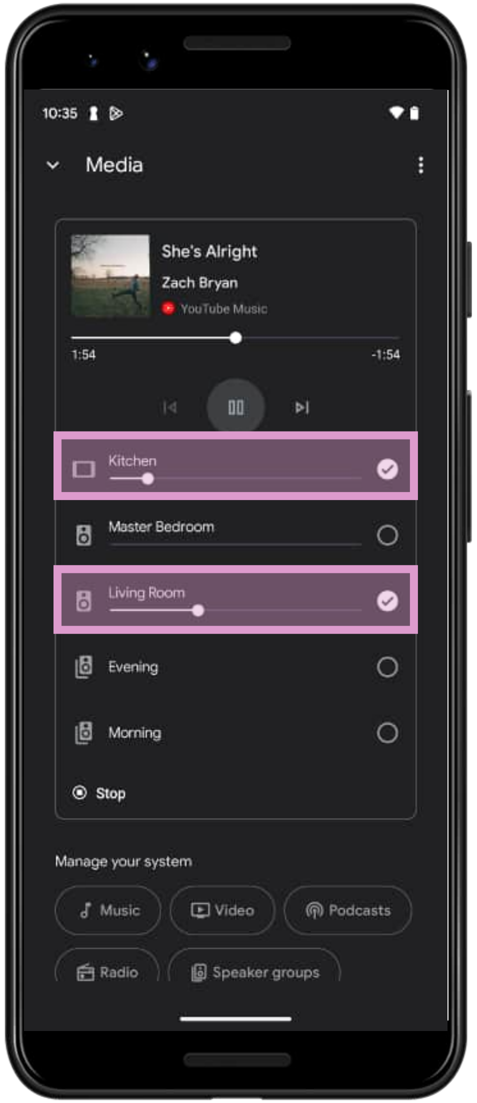

10:35
Media
She's Alright
Zach Bryan
YouTube Music
1:54
-1:54
Kitchen ✓
Master Bedroom ○
Living Room ✓
Evening ○
Morning ○
Stop
Manage your system
Music
Video
Podcasts
Radio
Speaker groups

EXHIBIT A - FILED UNDER SEAL

Invoking the First Speaker Group

YouTube Music App (No Active Playback)

Invoking the First Speaker Group

- Google's Third Supplemental Response to Sonos's Interrogatory No. 13
- Testimony from Google's corporate designees
  - ➢ Kenneth MacKay
  - ➢ Justin Pedro
- Google Documents
  - ➢ "Create and manage speaker groups" [GOOG-SONOSWDTX-00007068-74]
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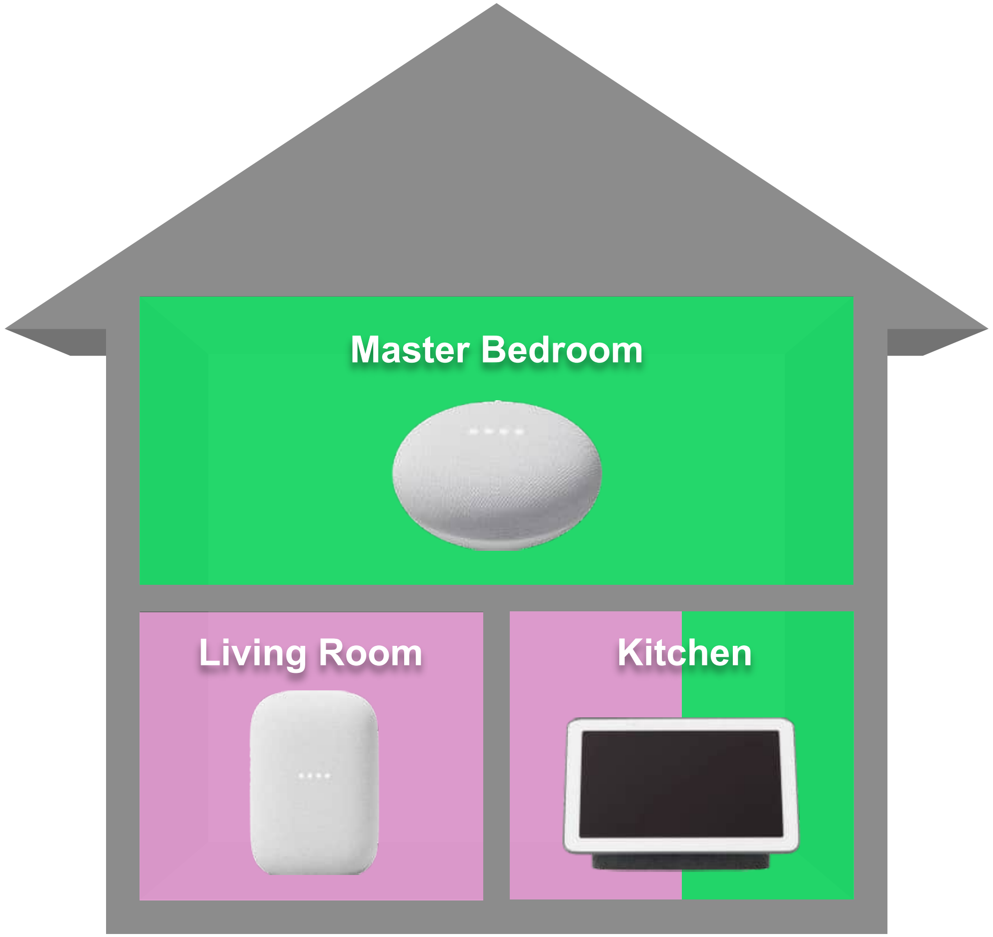
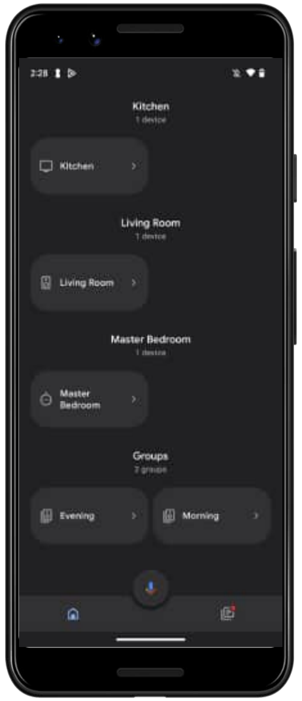
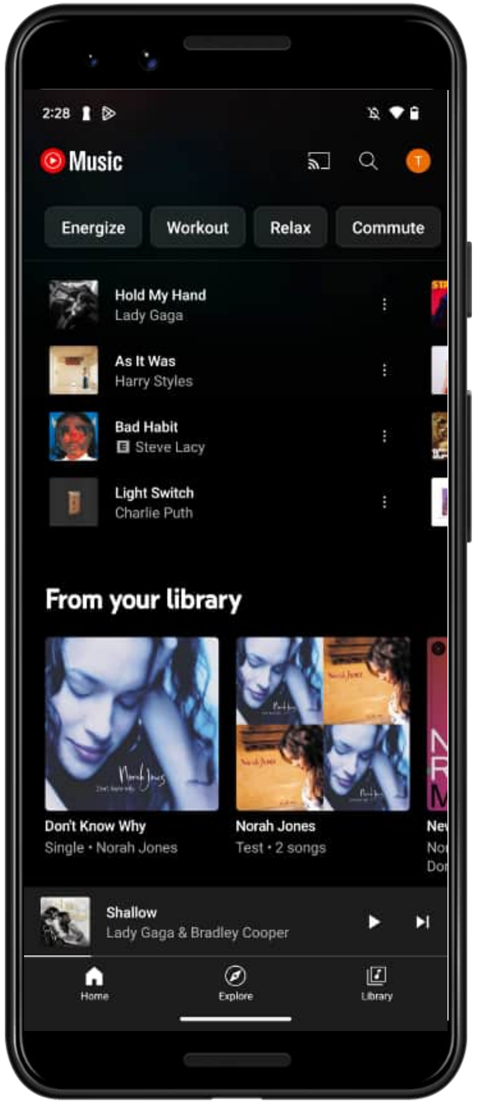
  - ➢ "Multizone – cast_shell integration" [GOOG-SONOSWDTX-00048962-66]
  - ➢ "Cast for Audio" Initial UX Spec [GOOG-SONOSNDCA-00056732-77]
  - ➢ "Multizone Audio Design" [GOOG-SONOSWDTX-00040384-96]
- Google's Source Code

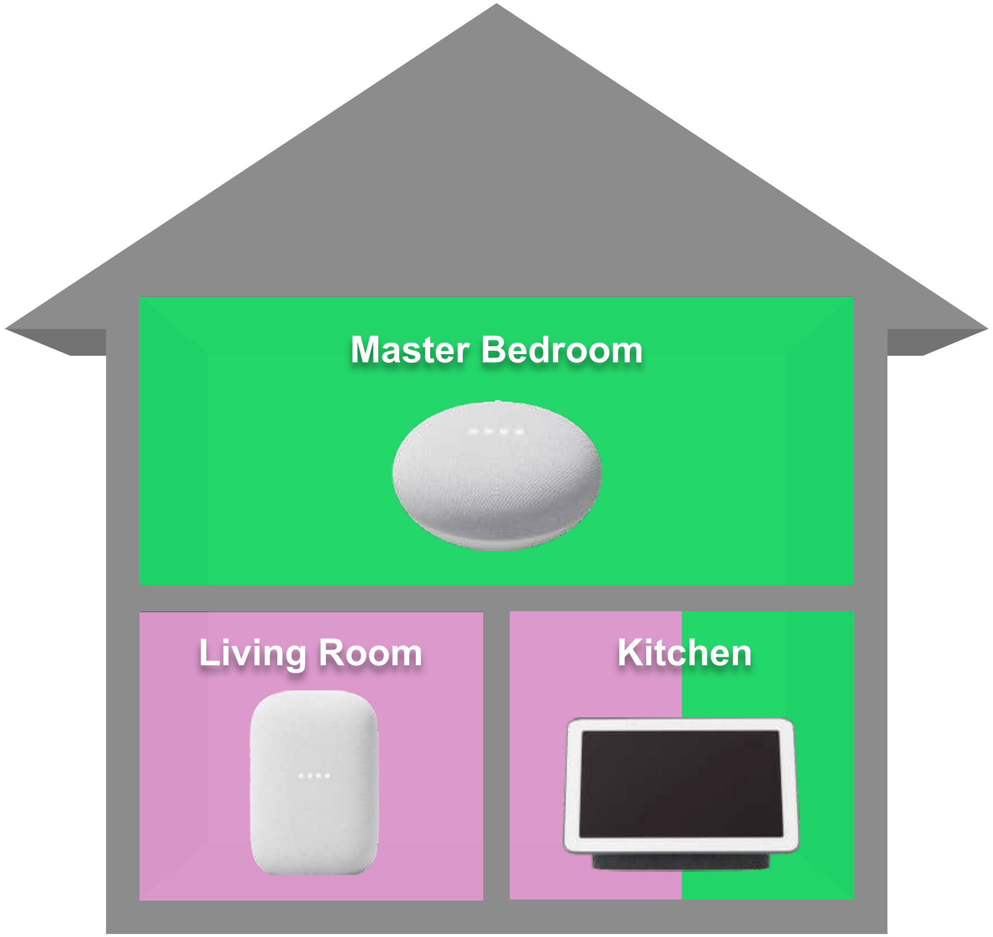
Invoking the First Speaker Group via YouTube Music App

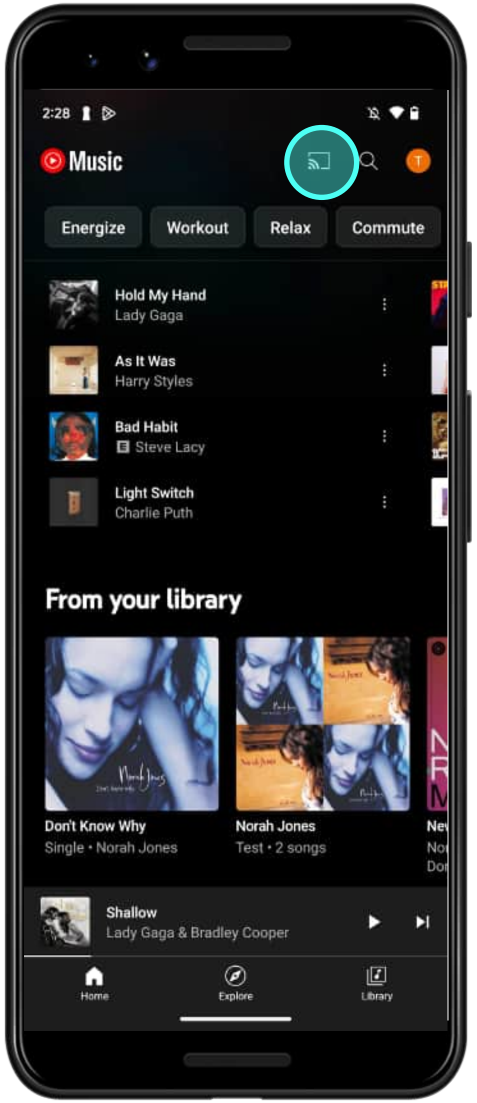

Master Bedroom
Living Room
Kitchen


2:28
Kitchen
1 device
Kitchen
Living Room
1 device
Living Room
Master Bedroom
1 device
Master Bedroom
Groups
2 groups
Evening
Morning


2:28
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Harry Styles
Bad Habit
Steve Lacy
Light Switch
Charlie Puth
From your library
Don't Know Why
Single • Norah Jones
Norah Jones
Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

Invoking the First Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen


2:28
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Harry Styles
Bad Habit
Steve Lacy
Light Switch
Charlie Puth
From your library
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Single • Norah Jones
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Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
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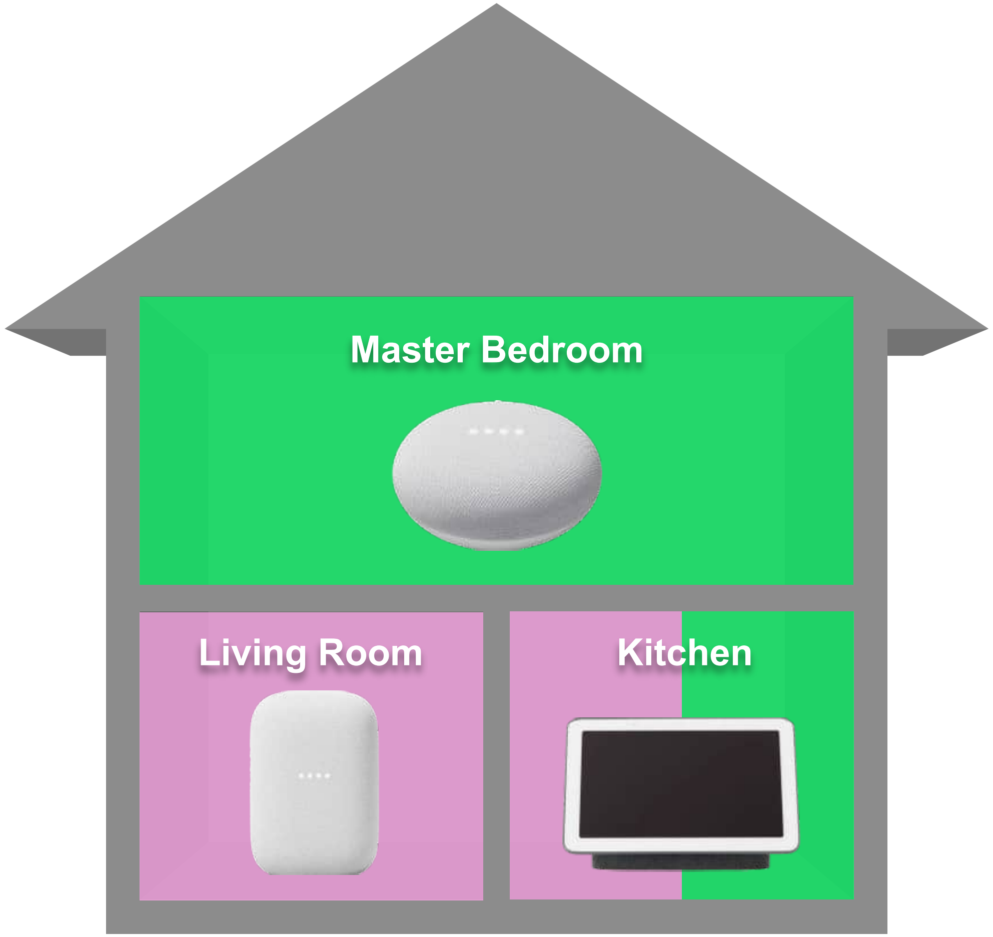
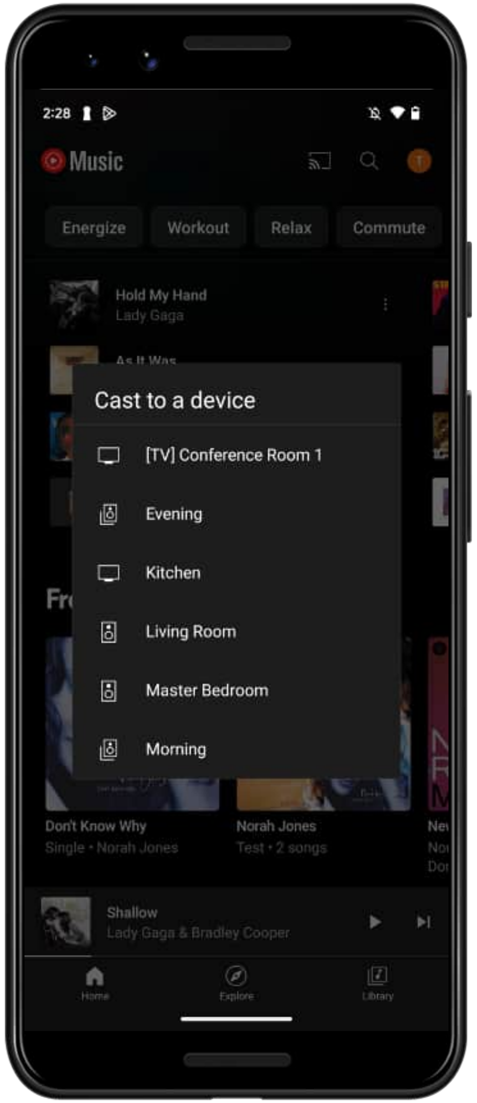
EXHIBIT A - FILED UNDER SEAL

Invoking the First Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen


2:28
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Cast to a device
[TV] Conference Room 1
Evening
Kitchen
Living Room
Master Bedroom
Morning
Don't Know Why
Single • Norah Jones
Norah Jones
Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
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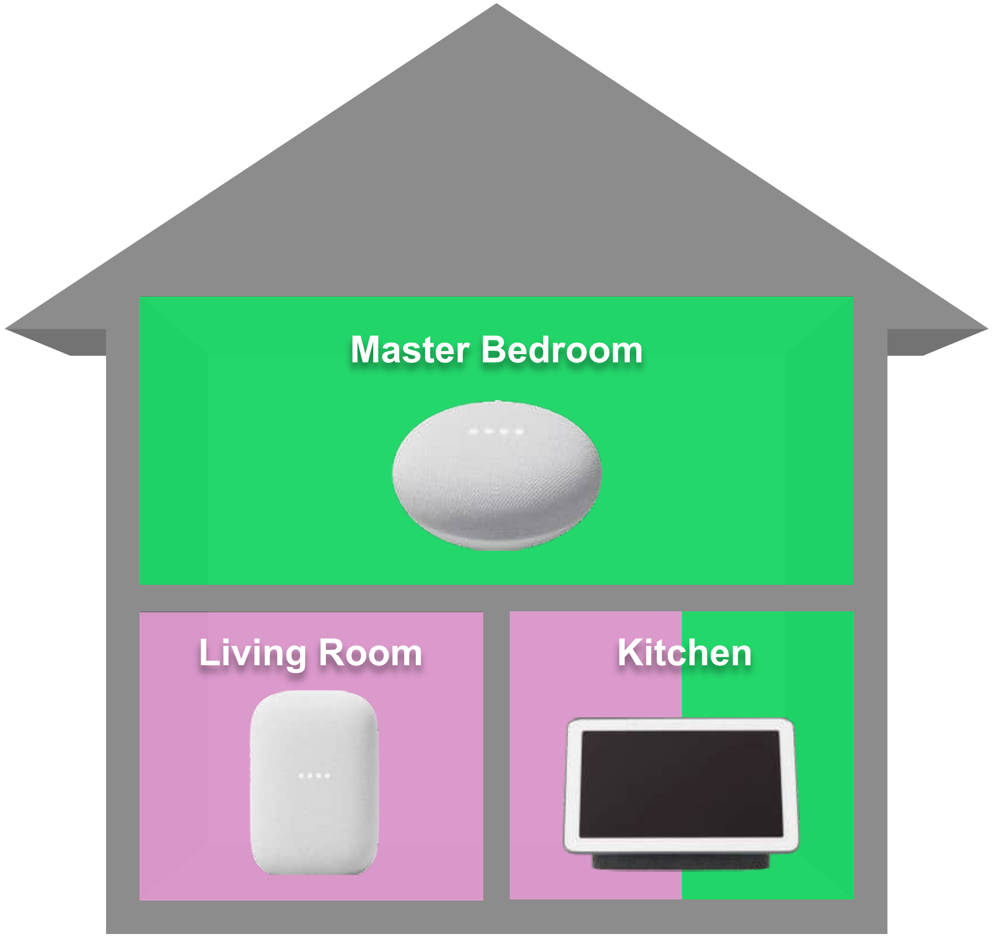
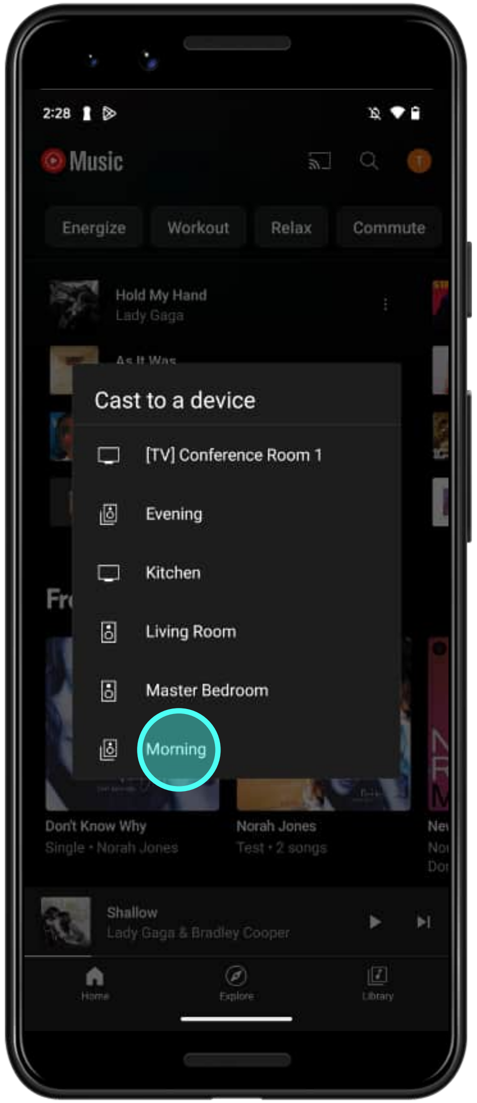
Invoking the First Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen


2:28
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Cast to a device
[TV] Conference Room 1
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Kitchen
Living Room
Master Bedroom
Morning
Don't Know Why
Single • Norah Jones
Norah Jones
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Lady Gaga & Bradley Cooper
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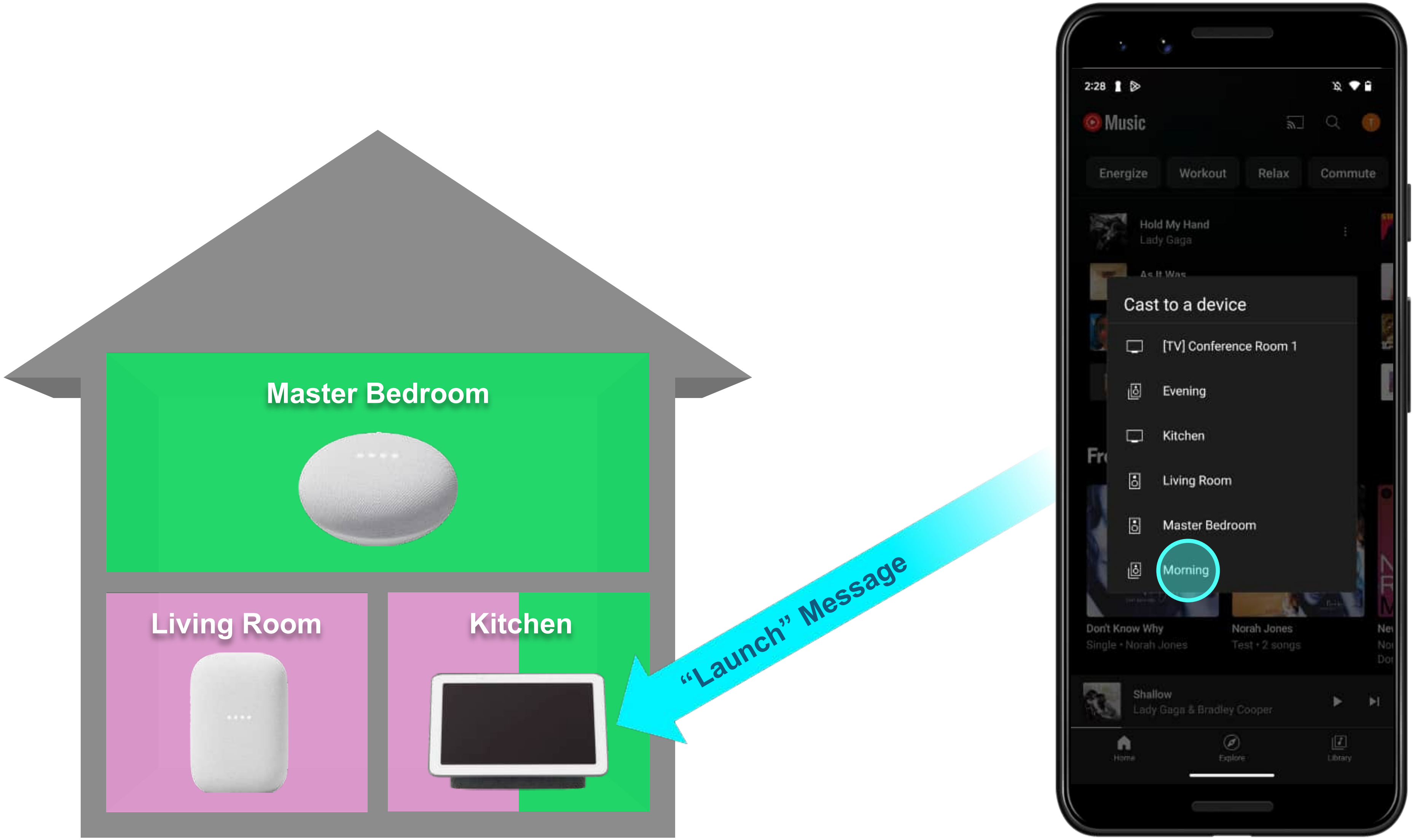
Invoking the First Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen
"Launch" Message
2:28
Music
Energize
Workout
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Commute
Hold My Hand
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Cast to a device
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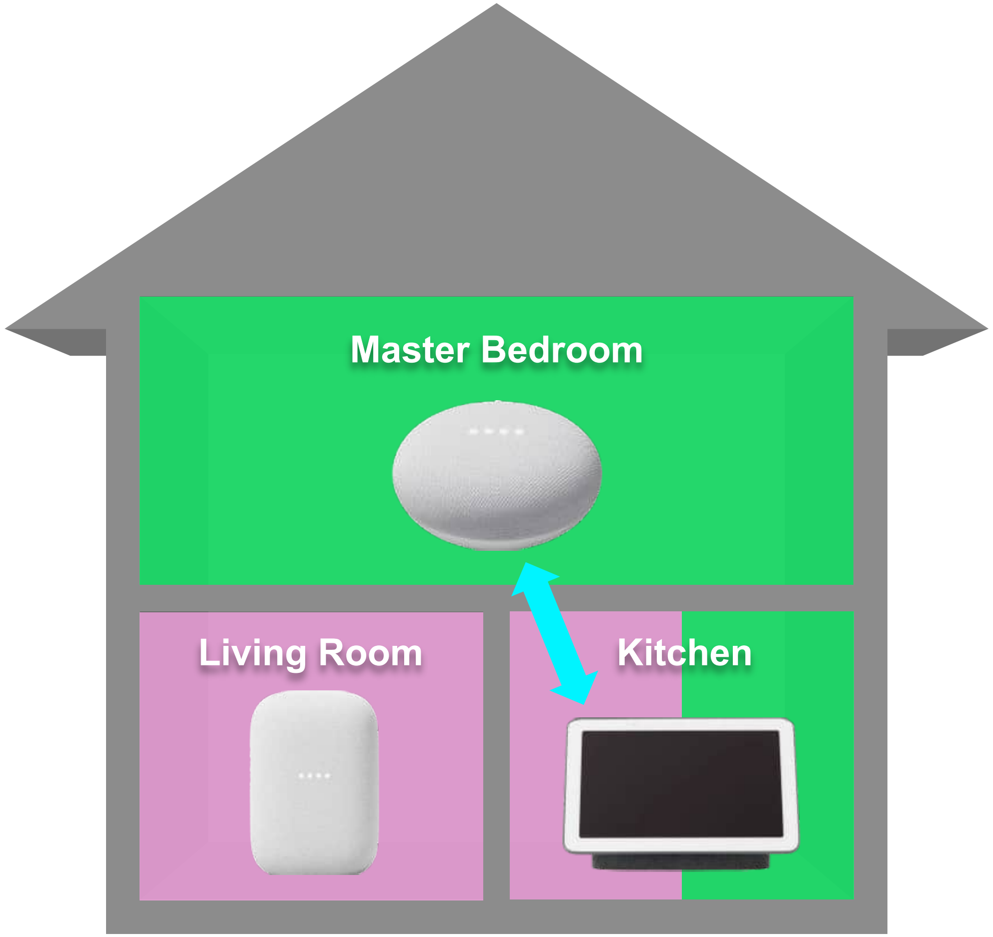
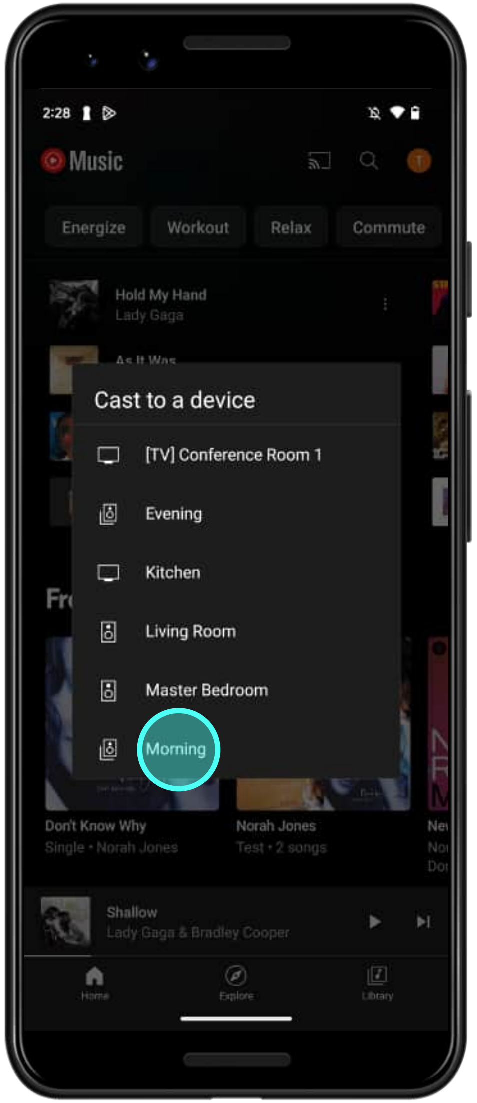
Invoking the First Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen


2:28
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Cast to a device
[TV] Conference Room 1
Evening
Kitchen
Living Room
Master Bedroom
Morning
Don't Know Why
Single • Norah Jones
Norah Jones
Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
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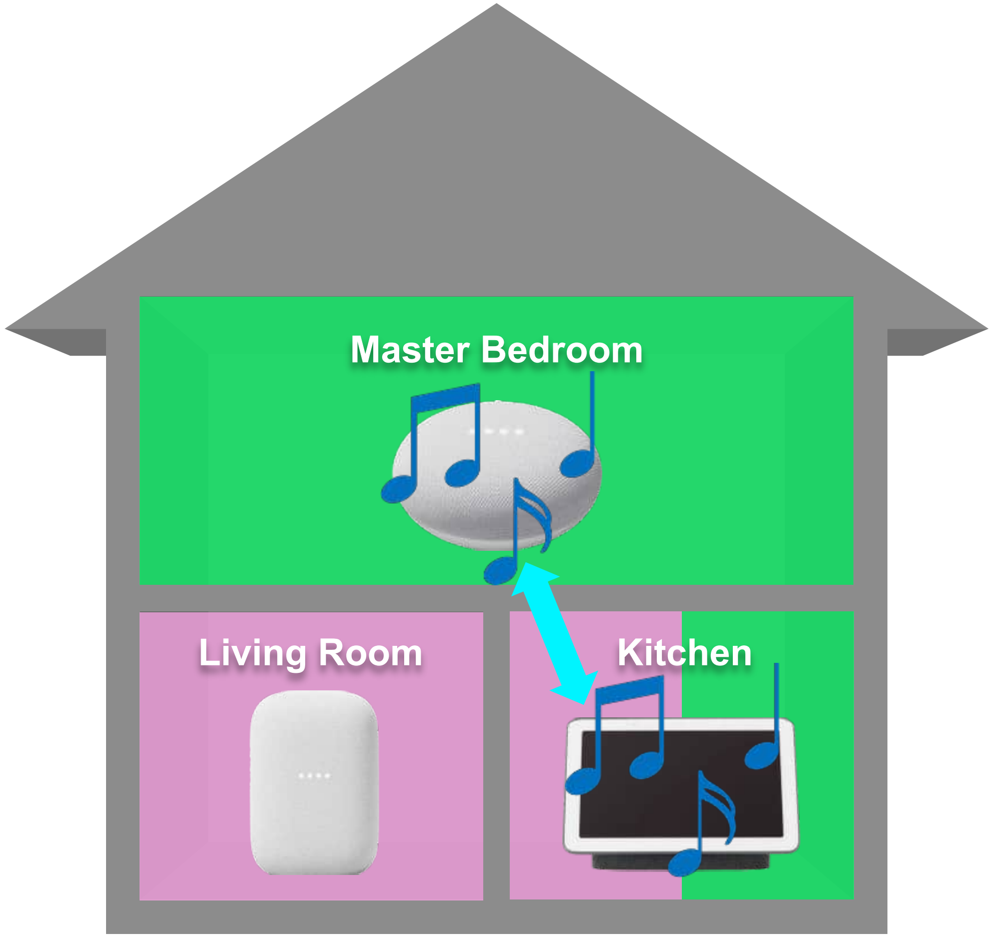
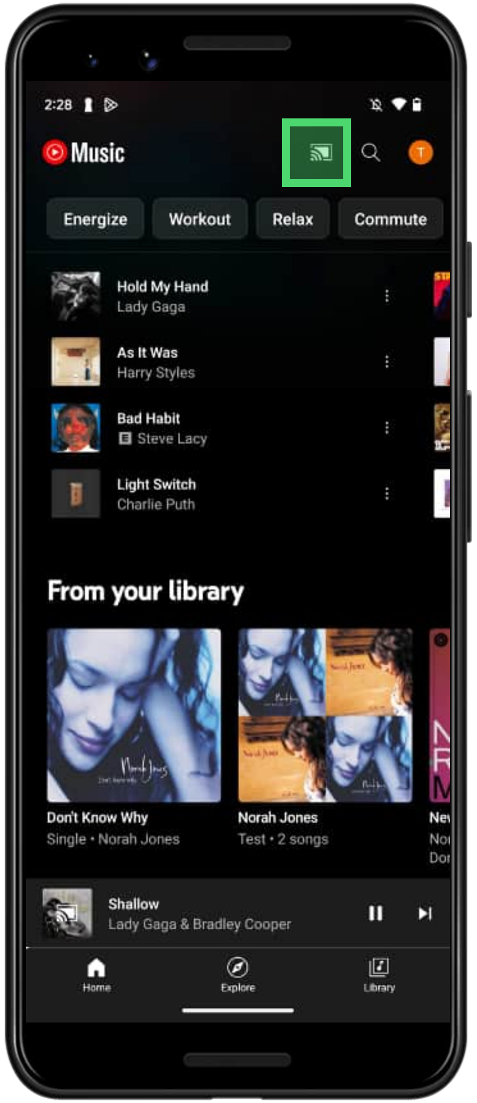
Library

Invoking the First Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen


2:28
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Harry Styles
Bad Habit
Steve Lacy
Light Switch
Charlie Puth
From your library
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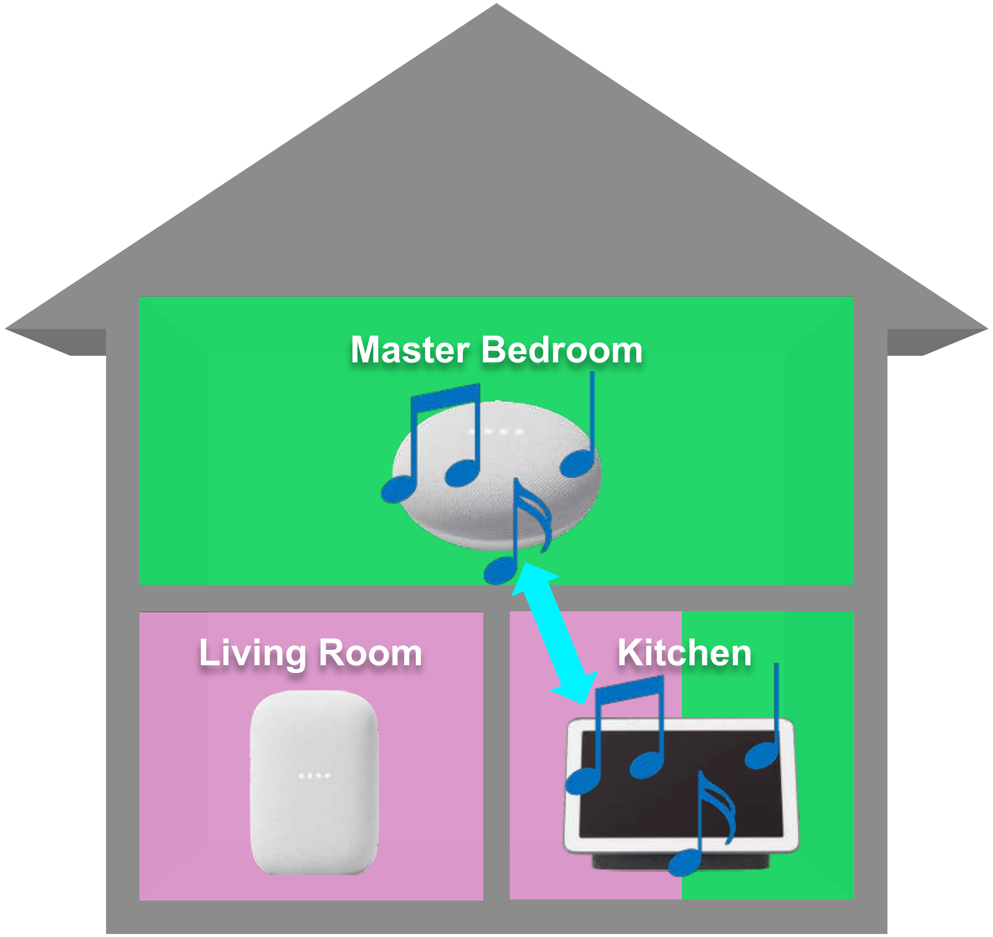
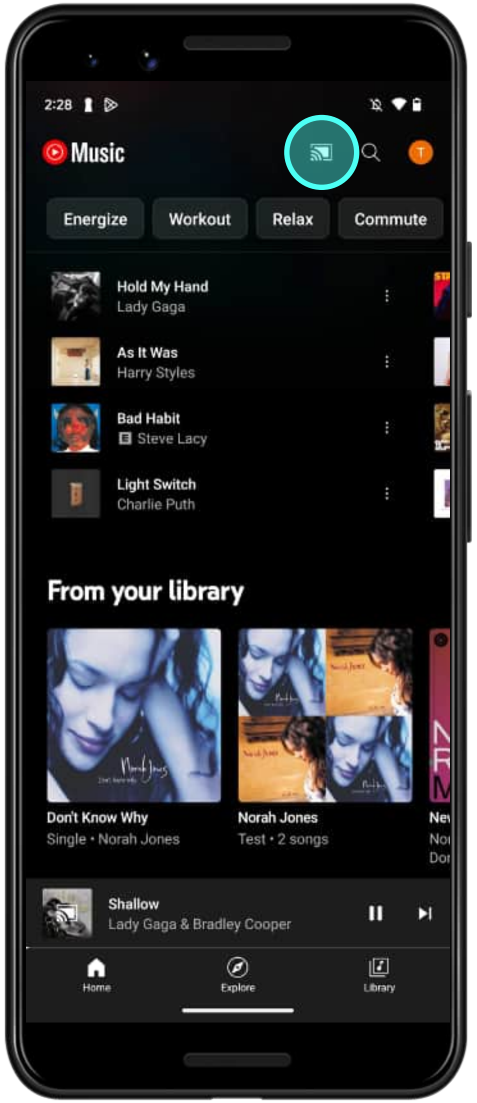
Invoking the First Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen


2:28
Music
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Hold My Hand
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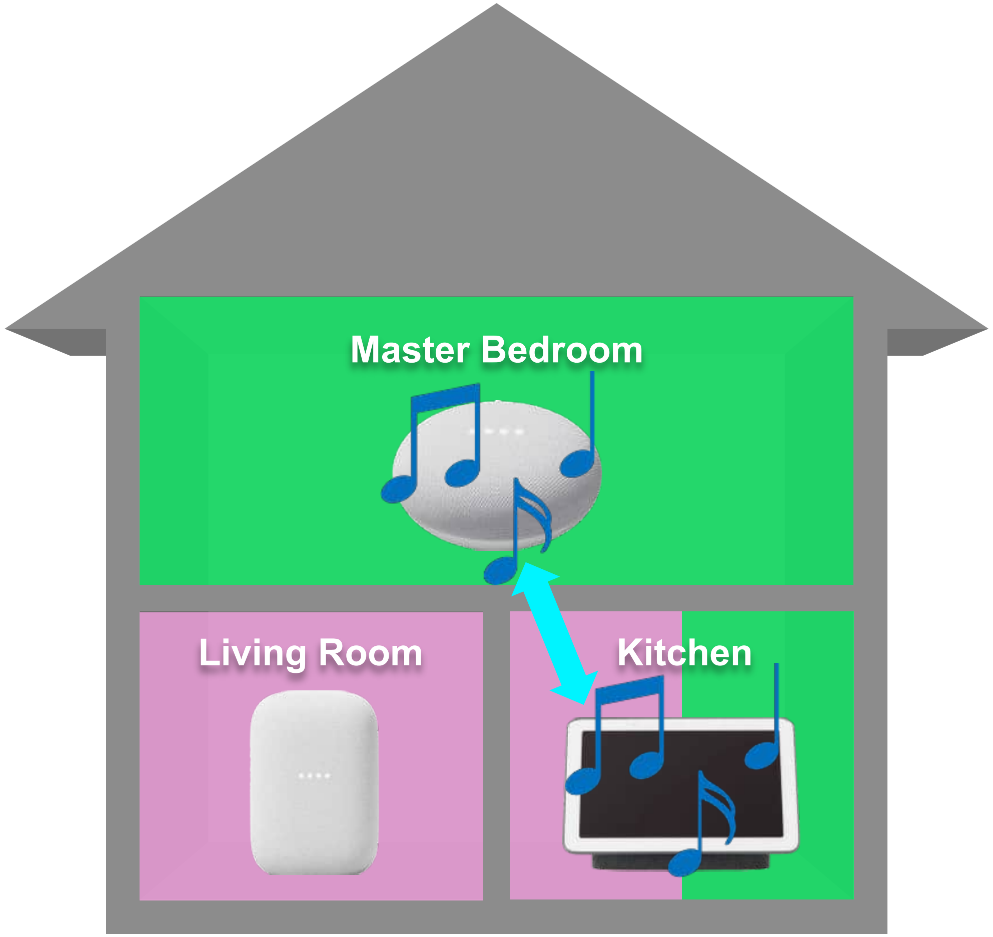
Shallow
Lady Gaga & Bradley Cooper

Invoking the First Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen

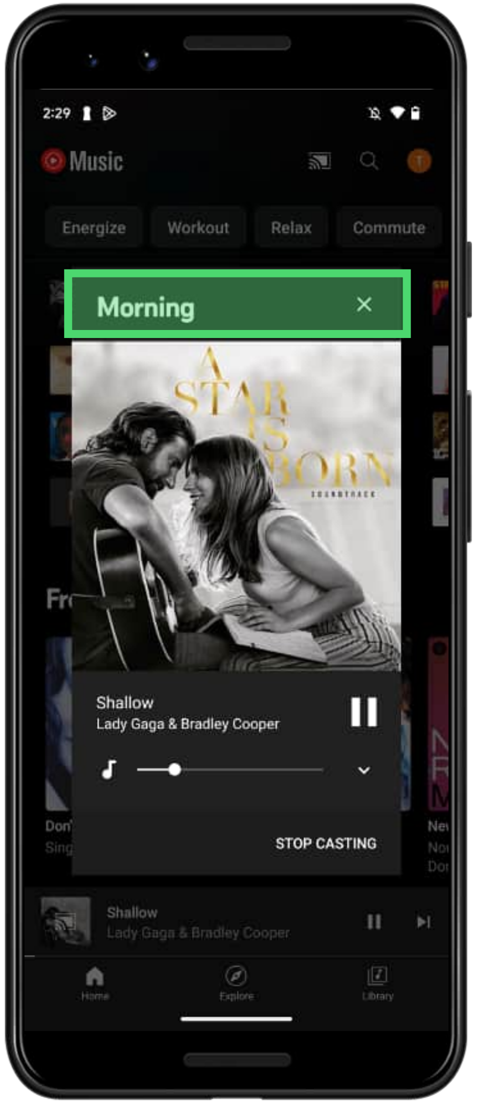

2:29
Music
Energize
Workout
Relax
Commute
Morning
Shallow
Lady Gaga & Bradley Cooper
STOP CASTING
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

EXHIBIT A - FILED UNDER SEAL

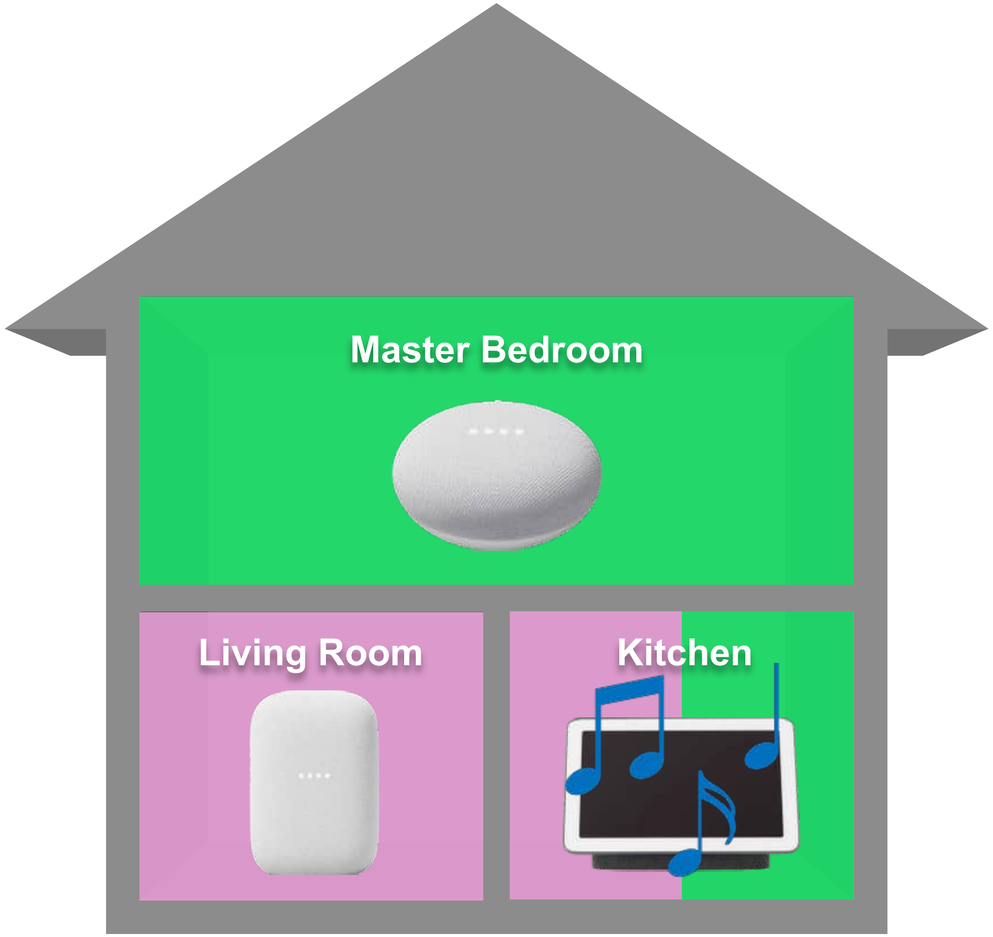
Invoking the First Speaker Group

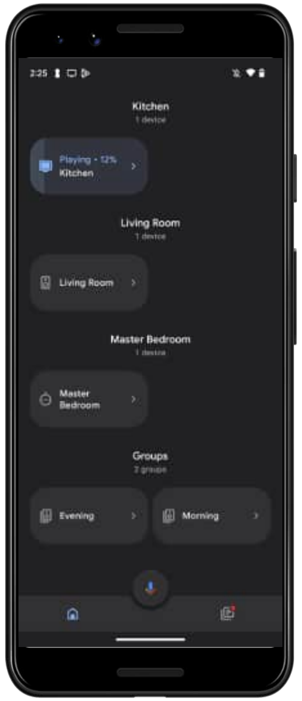
YouTube Music App (Active Playback on Kitchen)

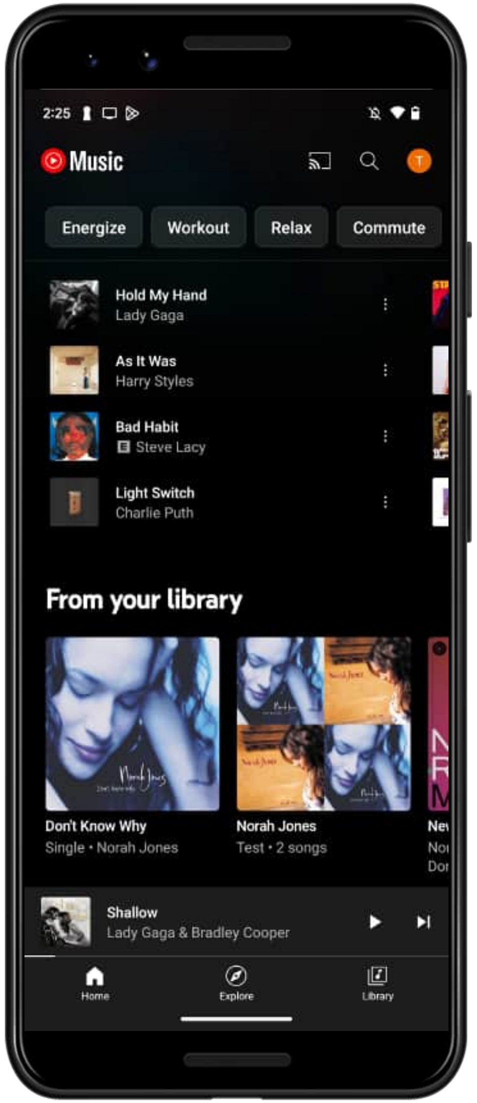
Invoking the First Speaker Group

- Google's Third Supplemental Response to Sonos's Interrogatory No. 13
- Testimony from Google's corporate designees
  - Kenneth MacKay
  - Justin Pedro
- Google Documents
  - "Create and manage speaker groups" [GOOG-SONOSWDTX-00007068-74]
  - "Group your Google Assistance device" [SONOS-SVG2-00055660-61]
  - "Multizone – cast_shell integration" [GOOG-SONOSWDTX-00048962-66]
  - "Cast for Audio" Initial UX Spec [GOOG-SONOSNDCA-00056732-77]
  - "Multizone Audio Design" [GOOG-SONOSWDTX-00040384-96]
- Google's Source Code

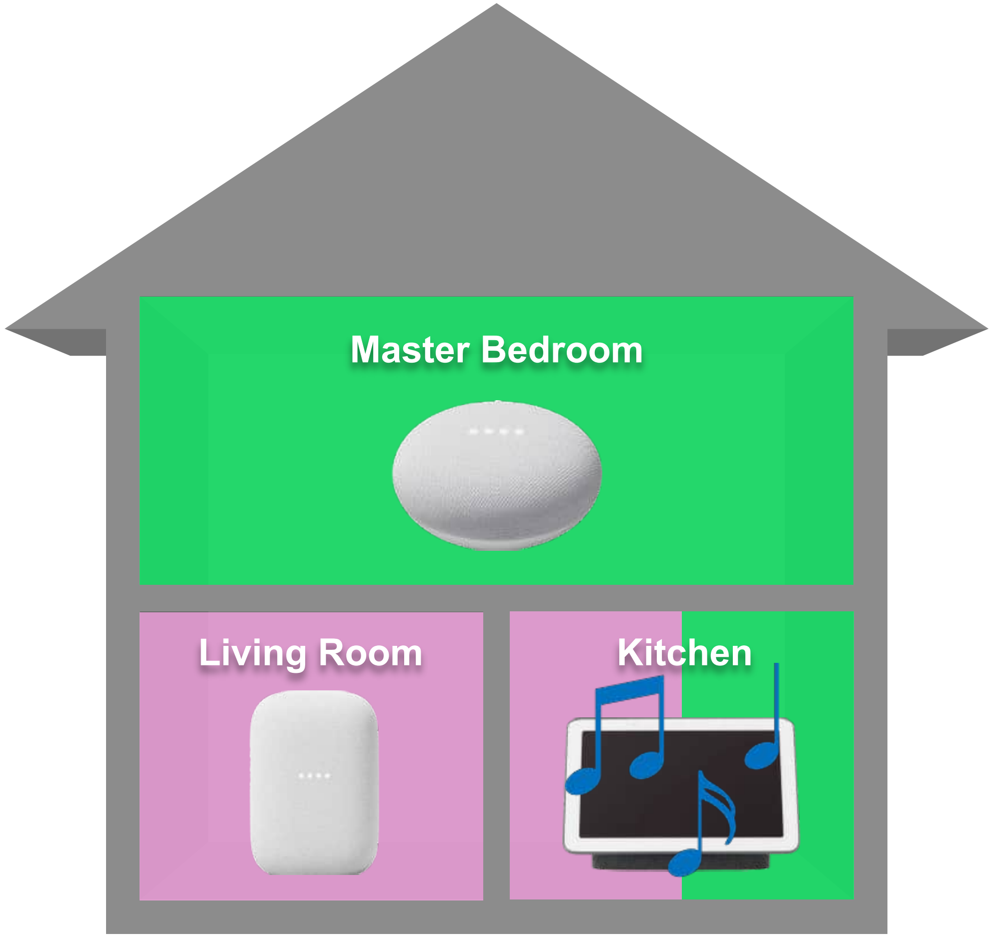
Invoking the First Speaker Group via YouTube Music App

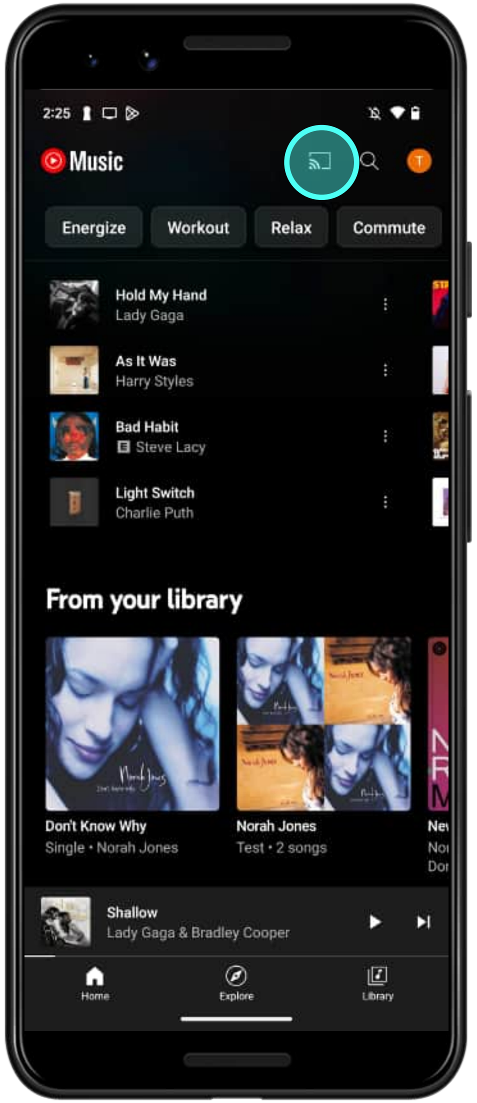

Master Bedroom
Living Room
Kitchen


2:25
Kitchen
1 device
Playing • 12%
Kitchen
Living Room
1 device
Living Room
Master Bedroom
1 device
Master Bedroom
Groups
2 groups
Evening
Morning

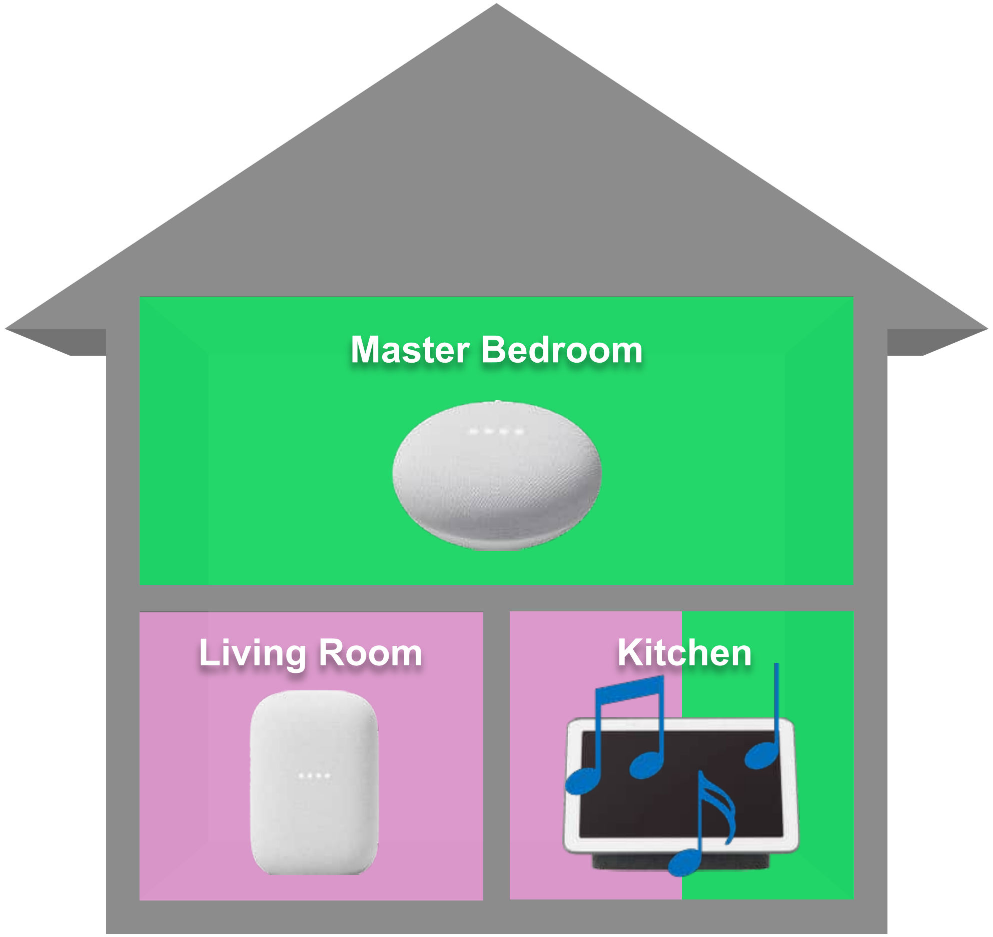

2:25
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Harry Styles
Bad Habit
Steve Lacy
Light Switch
Charlie Puth
From your library
Don't Know Why
Single • Norah Jones
Norah Jones
Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

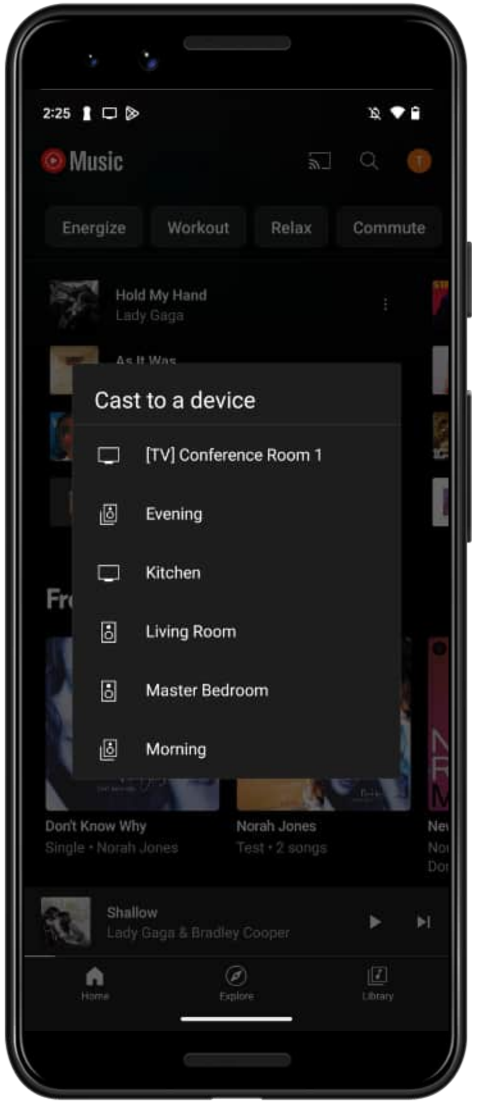
Invoking the First Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen

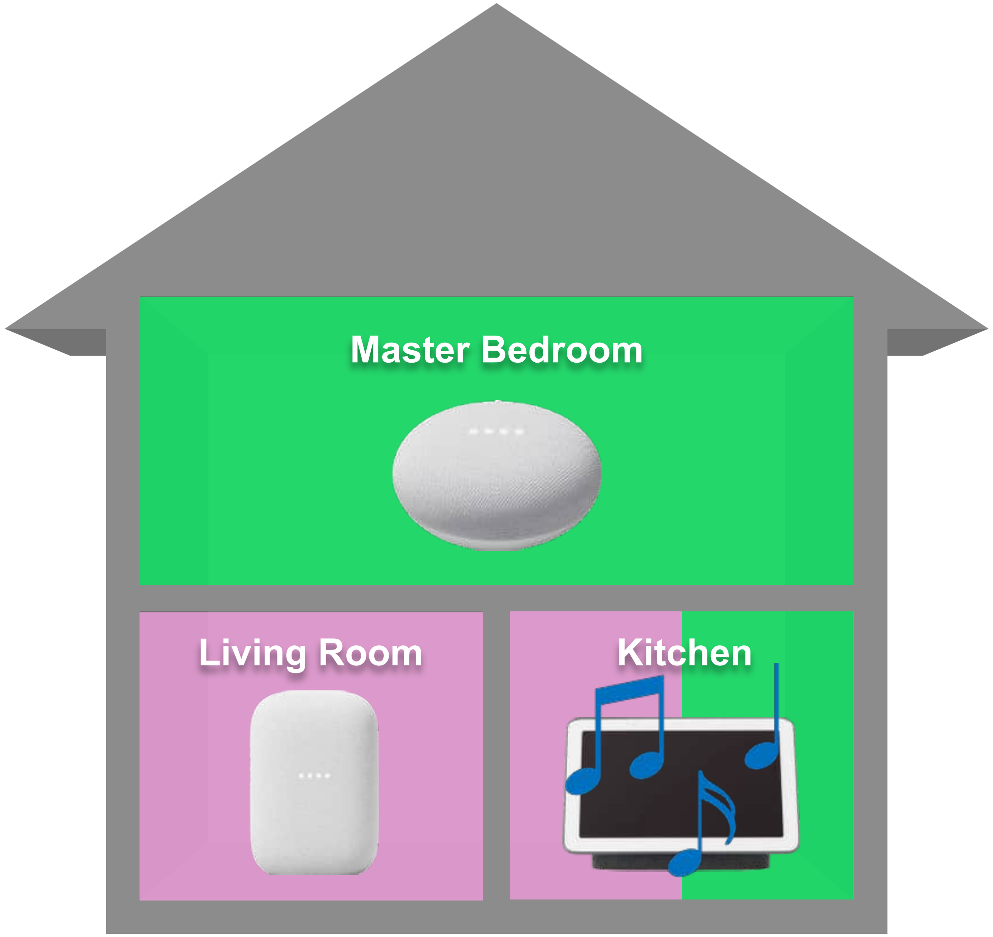

2:25
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Harry Styles
Bad Habit
Steve Lacy
Light Switch
Charlie Puth
From your library
Don't Know Why
Single • Norah Jones
Norah Jones
Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

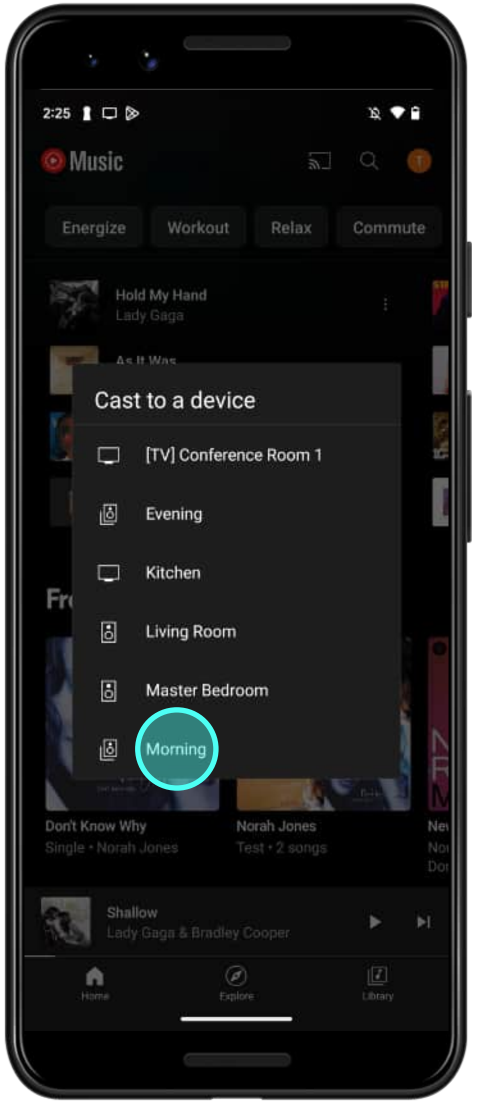
Invoking the First Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen

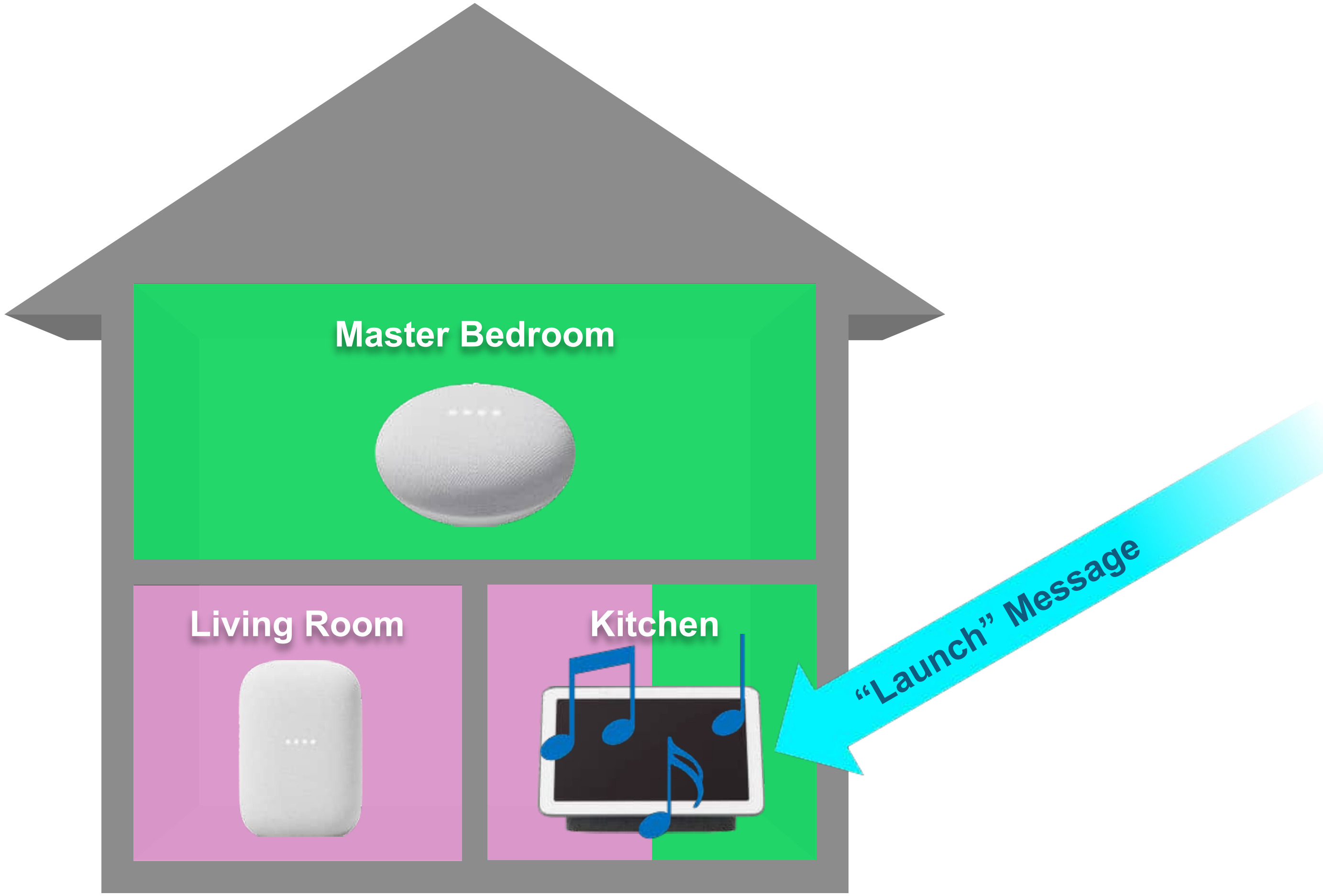

2:25
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Cast to a device
[TV] Conference Room 1
Evening
Kitchen
Living Room
Master Bedroom
Morning
Don't Know Why
Single • Norah Jones
Norah Jones
Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

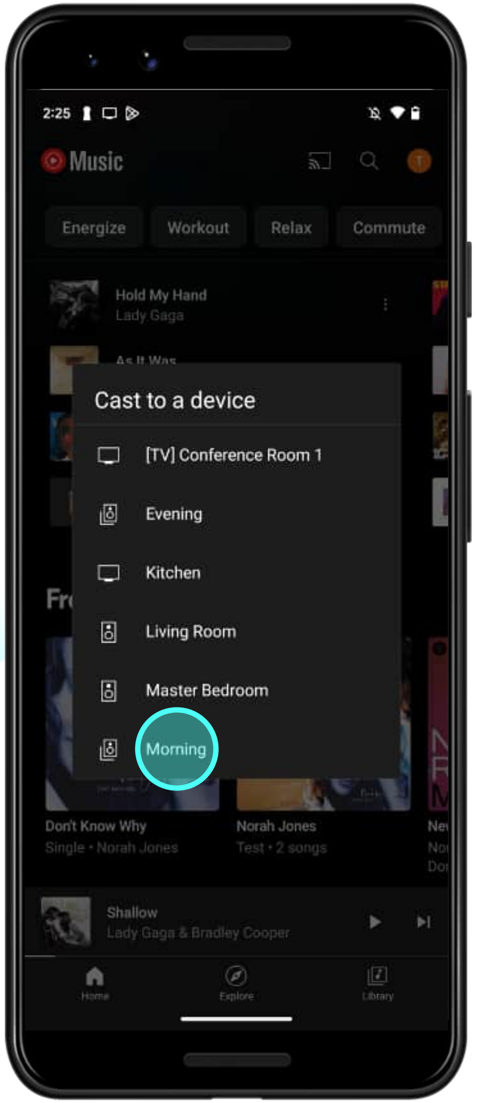
Invoking the First Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen

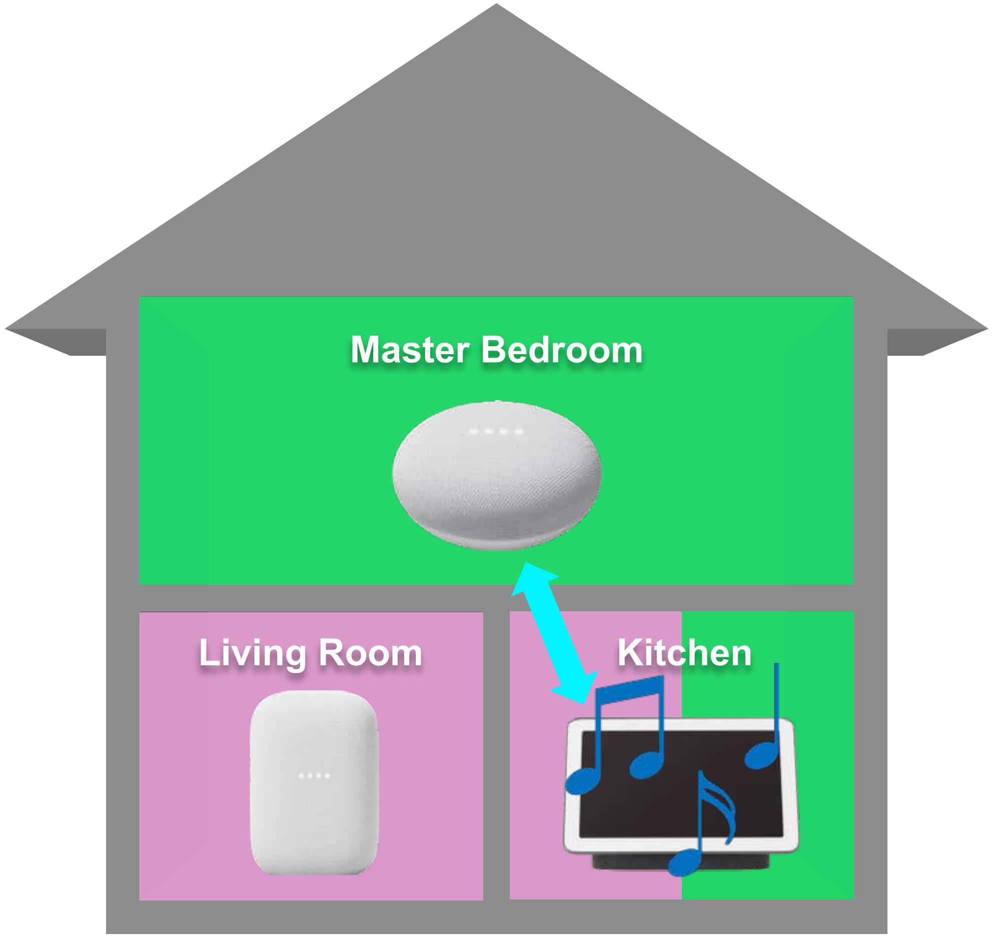

2:25
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Cast to a device
[TV] Conference Room 1
Evening
Kitchen
Living Room
Master Bedroom
Morning
Don't Know Why
Single • Norah Jones
Norah Jones
Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

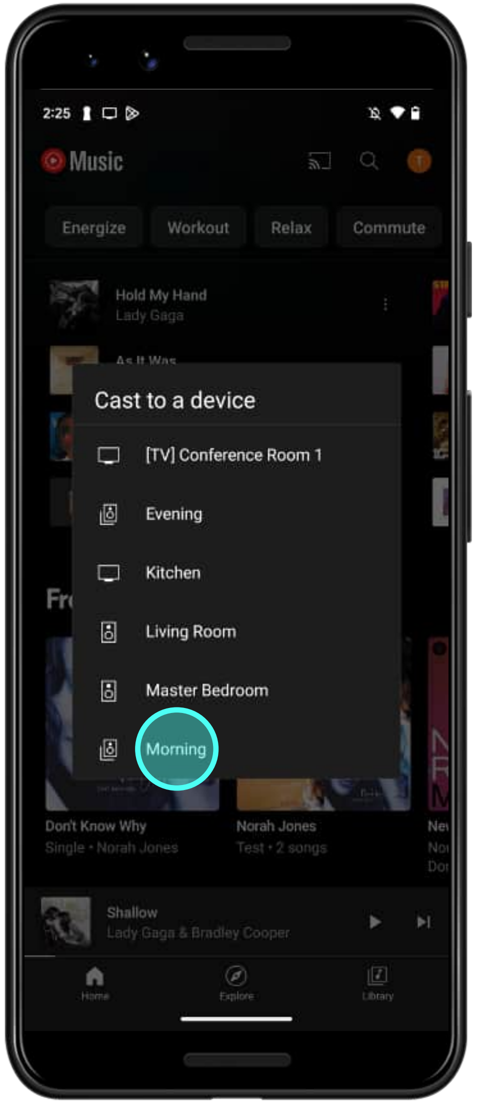
Invoking the First Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen
"Launch" Message

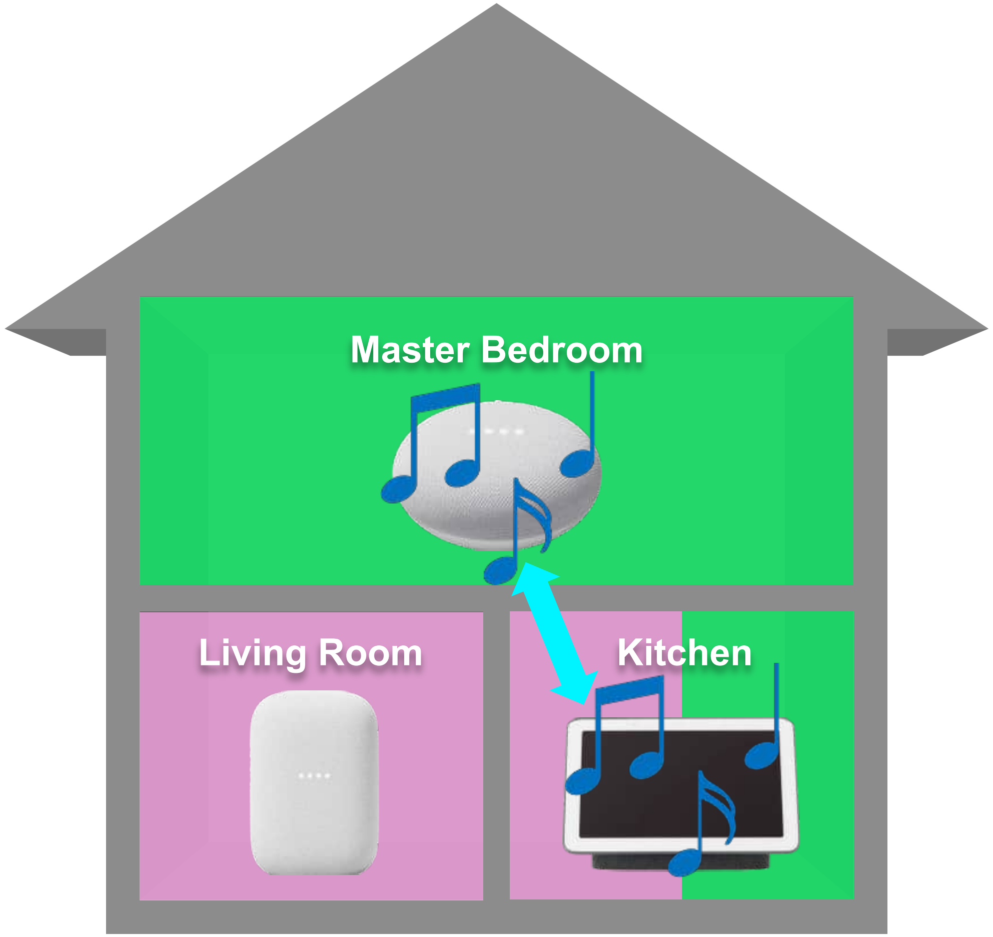

2:25
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Cast to a device
[TV] Conference Room 1
Evening
Kitchen
Living Room
Master Bedroom
Morning
Don't Know Why
Single • Norah Jones
Norah Jones
Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

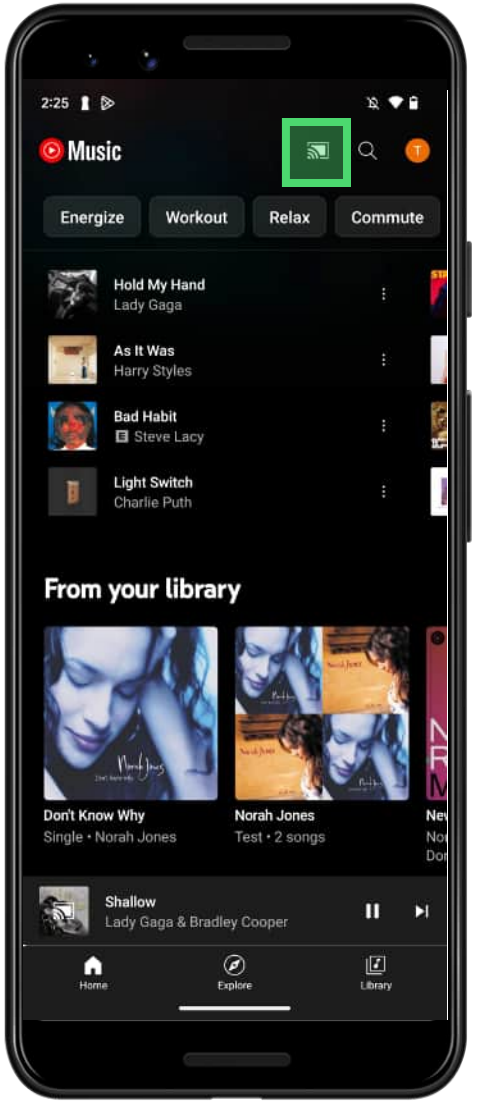
Invoking the First Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen


2:25
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Cast to a device
[TV] Conference Room 1
Evening
Kitchen
Living Room
Master Bedroom
Morning
Don't Know Why
Single • Norah Jones
Norah Jones
Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

Invoking the First Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen


2:25
Music
T
Energize
Workout
Relax
Commute

Hold My Hand
Lady Gaga

As It Was
Harry Styles

Bad Habit
E Steve Lacy

Light Switch
Charlie Puth

From your library

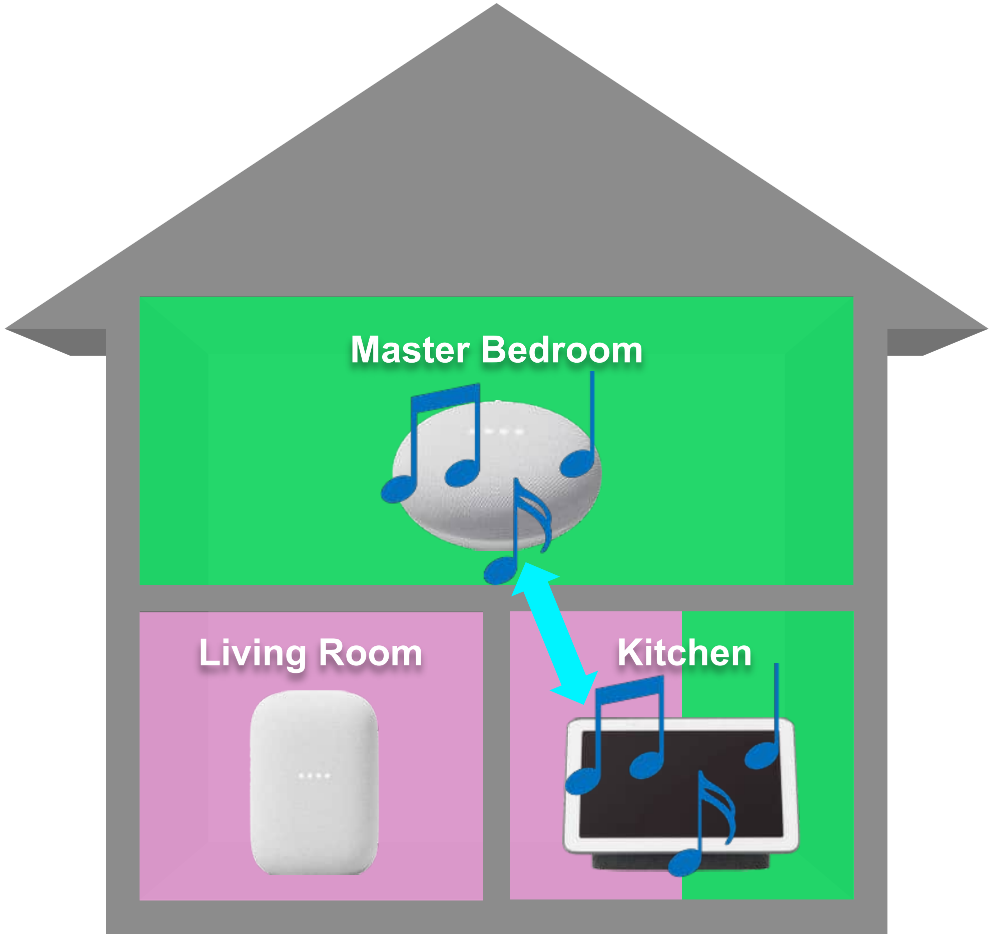
Don't Know Why
Single • Norah Jones

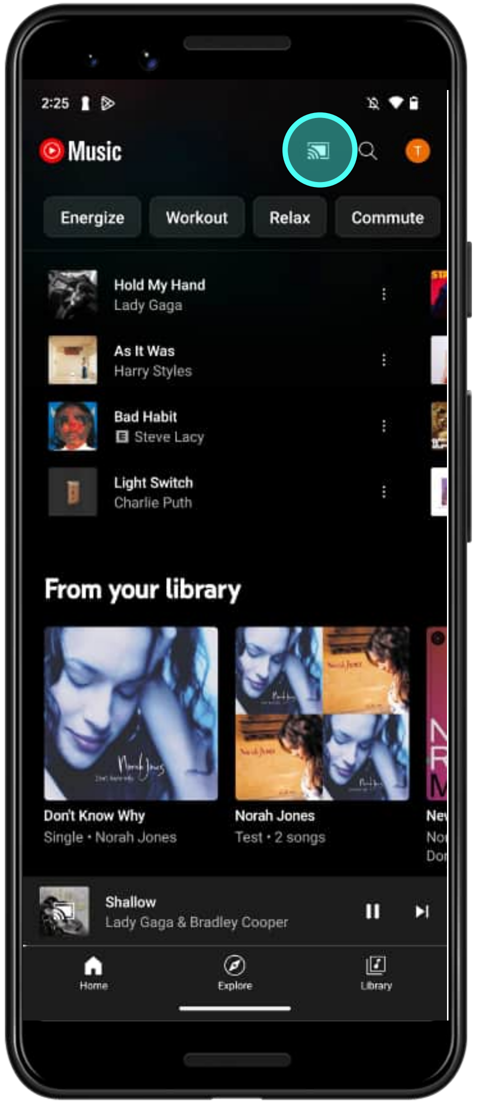
Norah Jones
Test • 2 songs

Shallow
Lady Gaga & Bradley Cooper

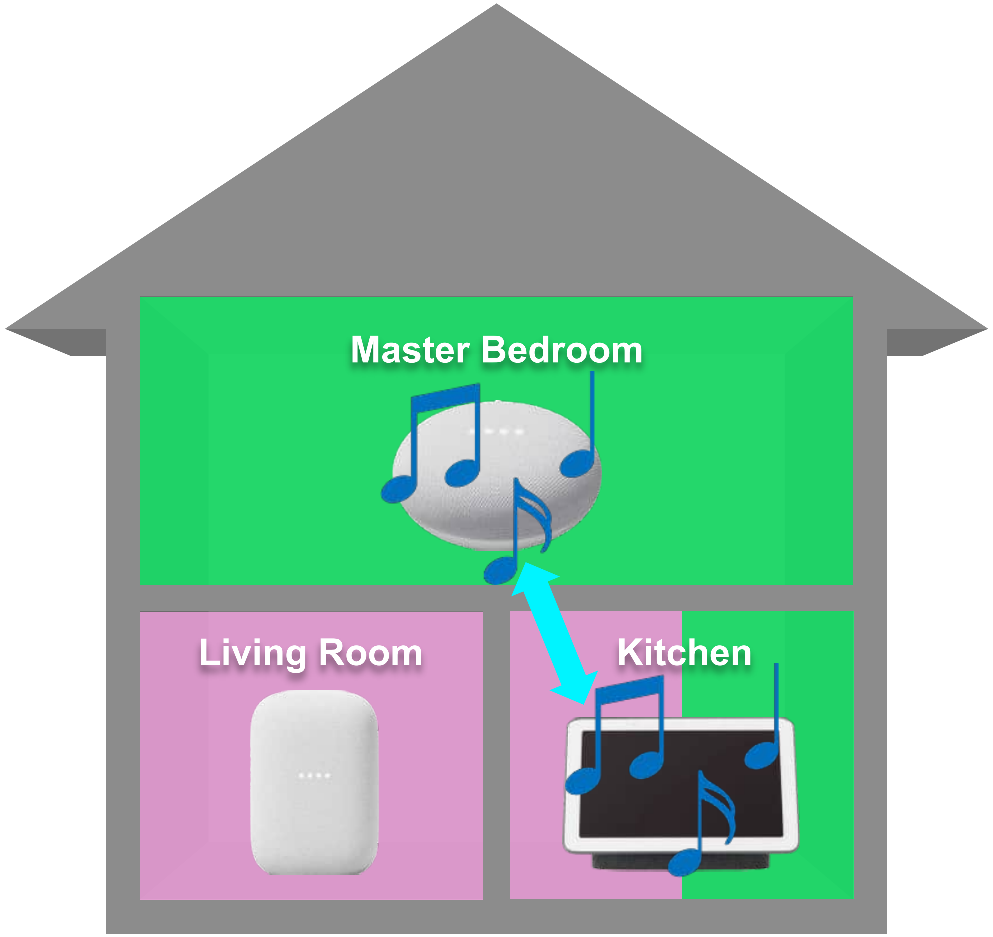
Home
Explore
Library

Invoking the First Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen


2:25
Music
T
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Harry Styles
Bad Habit
E Steve Lacy
Light Switch
Charlie Puth
From your library
Don't Know Why
Single • Norah Jones
Norah Jones
Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

Invoking the First Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen

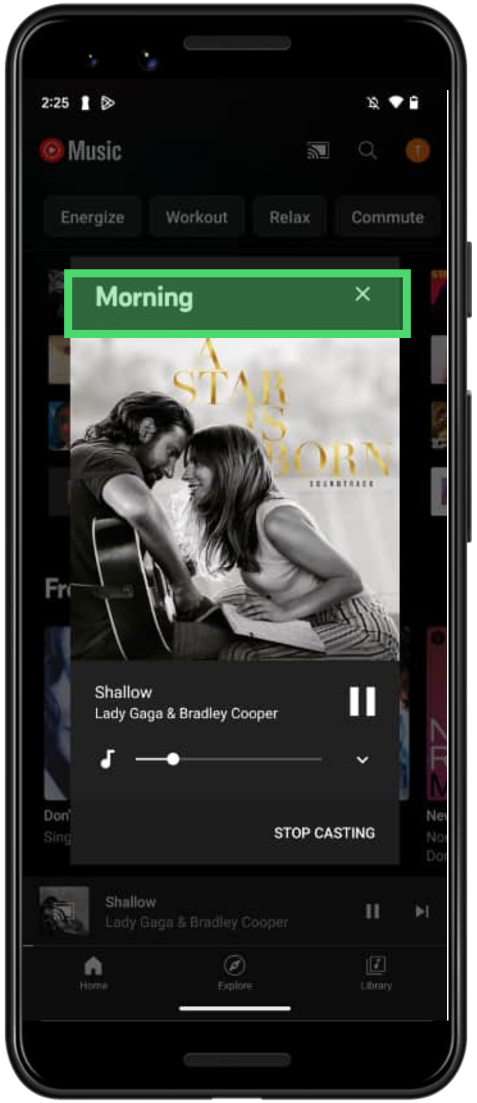

2:25
Music
Energize
Workout
Relax
Commute
Morning
×
A STAR IS BORN
SOUNDTRACK
Shallow
Lady Gaga & Bradley Cooper
STOP CASTING
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

EXHIBIT A - FILED UNDER SEAL

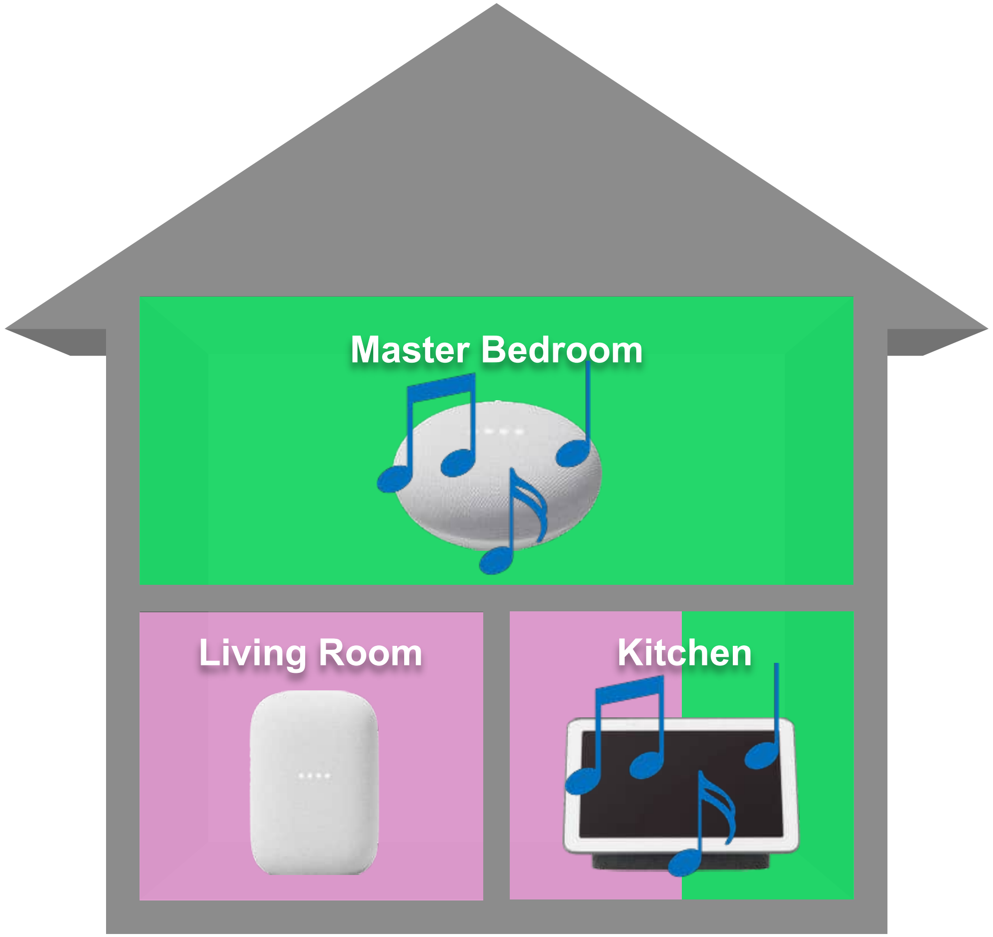
Invoking the Second Speaker Group

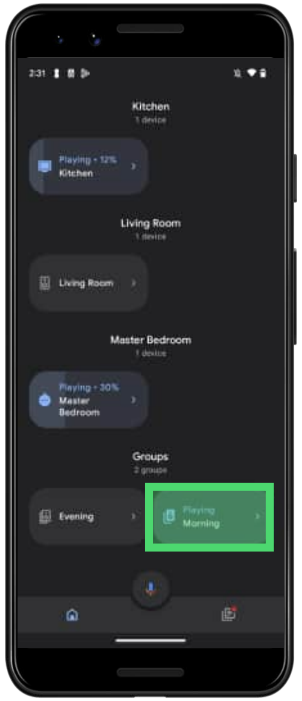
YouTube Music App (Active Playback on Morning Group)

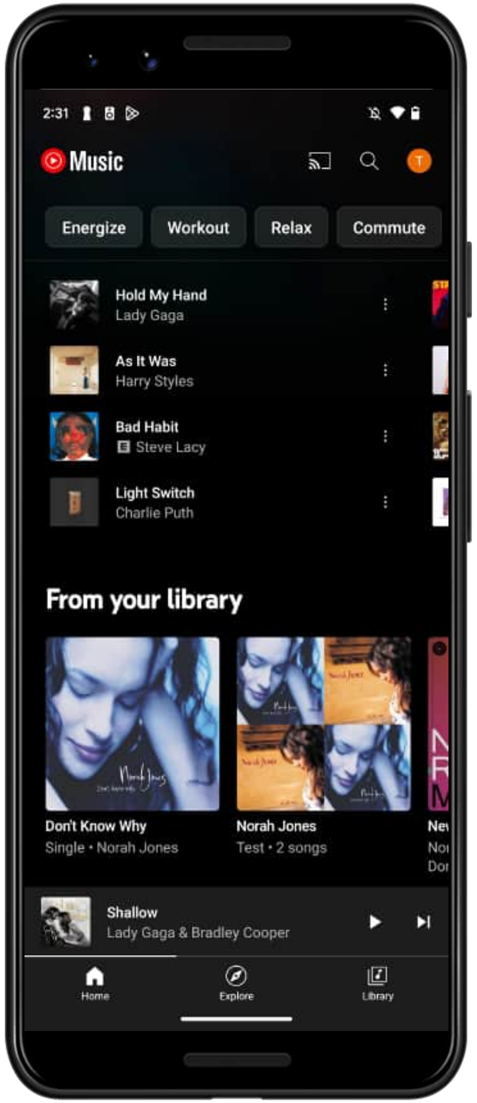
Invoking the Second Speaker Group

- Google's Third Supplemental Response to Sonos's Interrogatory No. 13
- Testimony from Google's corporate designees
  - Kenneth MacKay
  - Justin Pedro
- Google Documents
  - "Create and manage speaker groups" [GOOG-SONOSWDTX-00007068-74]
  - "Group your Google Assistance device" [SONOS-SVG2-00055660-61]
  - "Multizone – cast_shell integration" [GOOG-SONOSWDTX-00048962-66]
  - "Cast for Audio" Initial UX Spec [GOOG-SONOSNDCA-00056732-77]
  - "Multizone Audio Design" [GOOG-SONOSWDTX-00040384-96]
- Google's Source Code

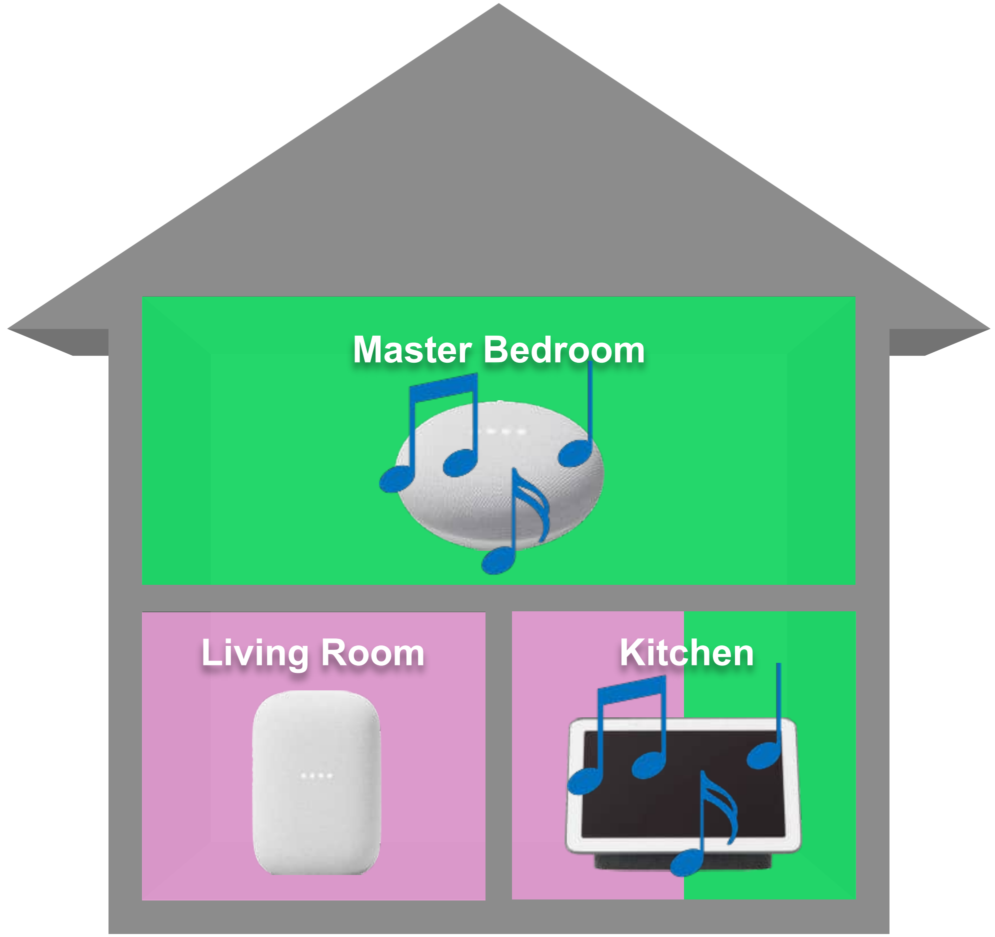
Invoking the Second Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen


2:31
Kitchen
1 device
Playing • 12%
Kitchen
Living Room
1 device
Living Room
Master Bedroom
1 device
Playing • 30%
Master Bedroom
Groups
2 groups
Evening
Playing
Morning


2:31
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Harry Styles
Bad Habit
Steve Lacy
Light Switch
Charlie Puth
From your library
Don't Know Why
Single • Norah Jones
Norah Jones
Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

Invoking the Second Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen

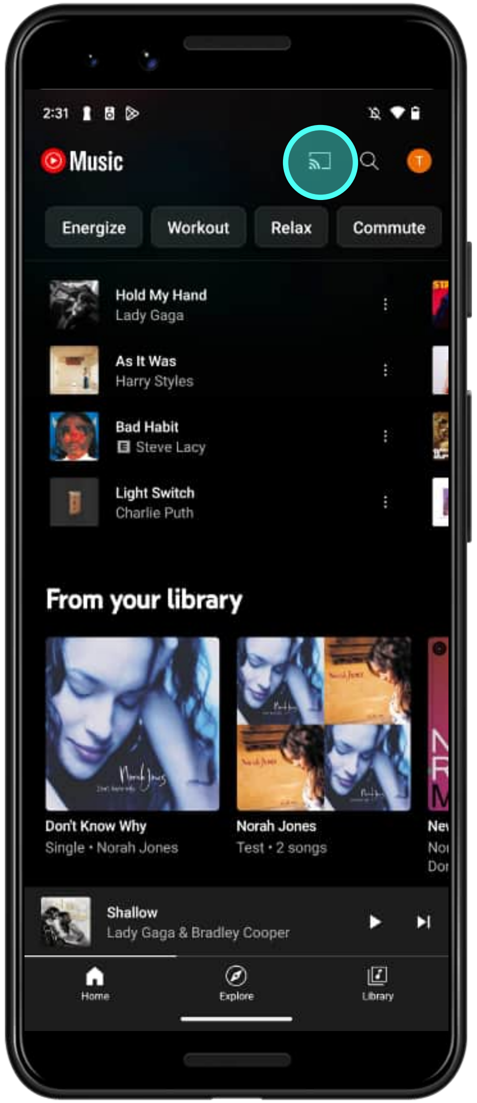
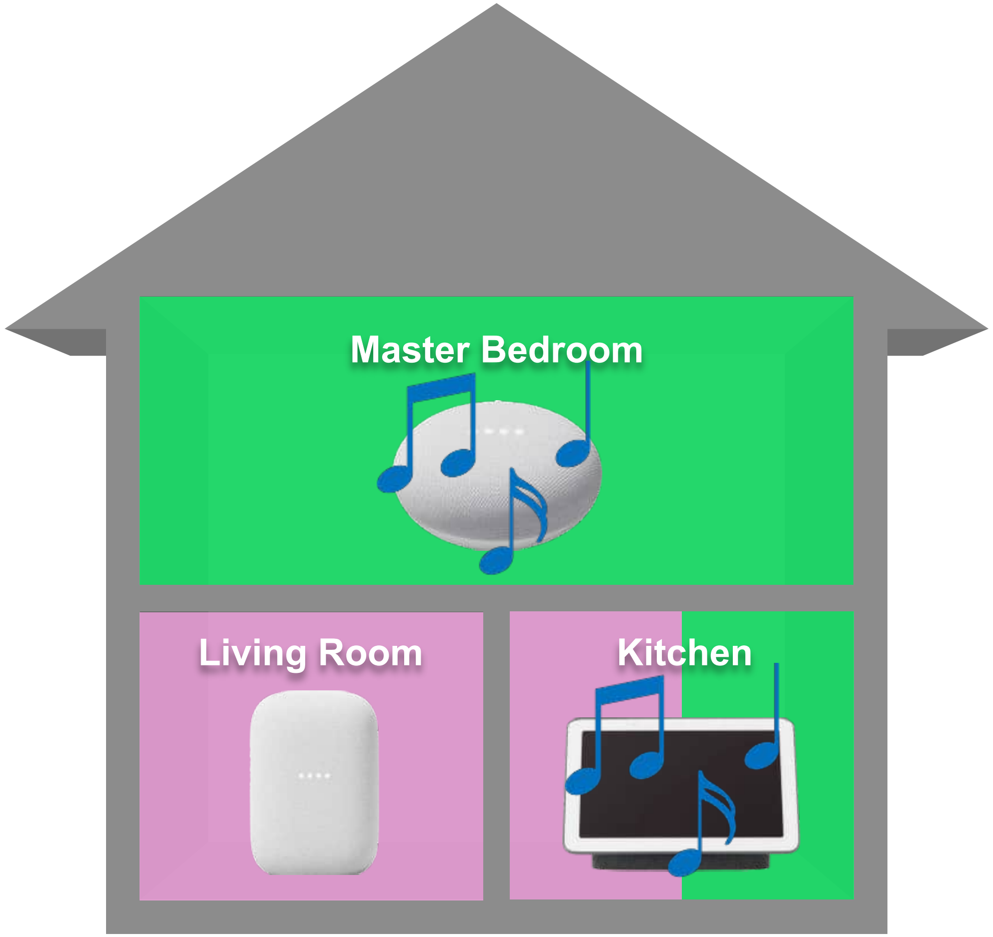
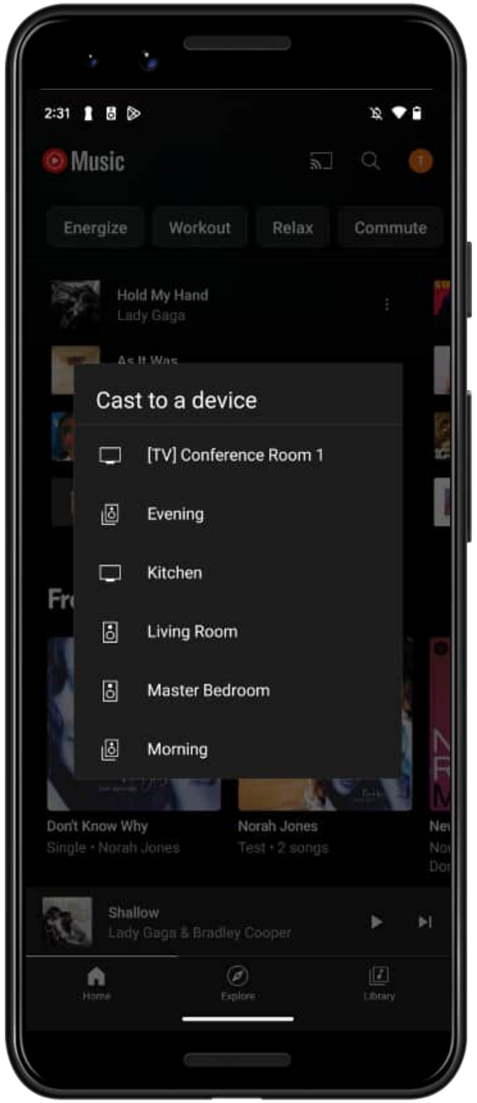

2:31
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Harry Styles
Bad Habit
Steve Lacy
Light Switch
Charlie Puth
From your library
Don't Know Why
Single • Norah Jones
Norah Jones
Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

EXHIBIT A - FILED UNDER SEAL

Invoking the Second Speaker Group via YouTube Music App

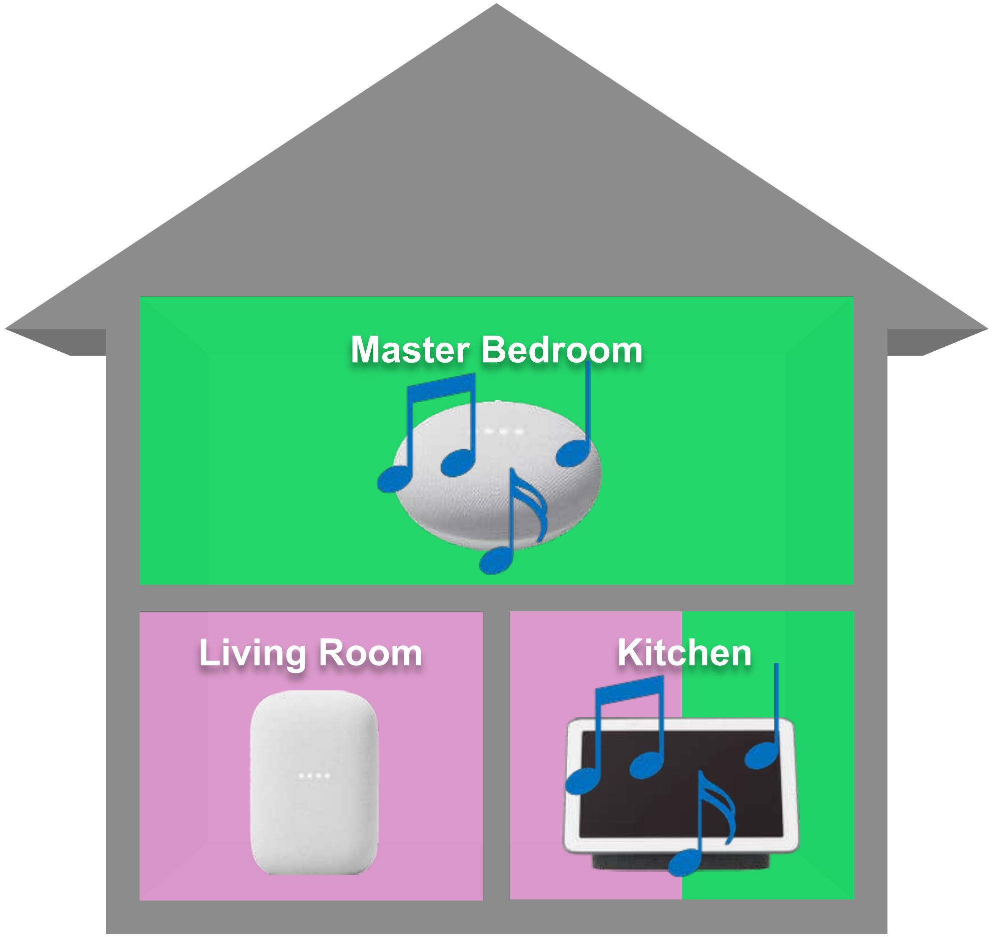

Master Bedroom
Living Room
Kitchen

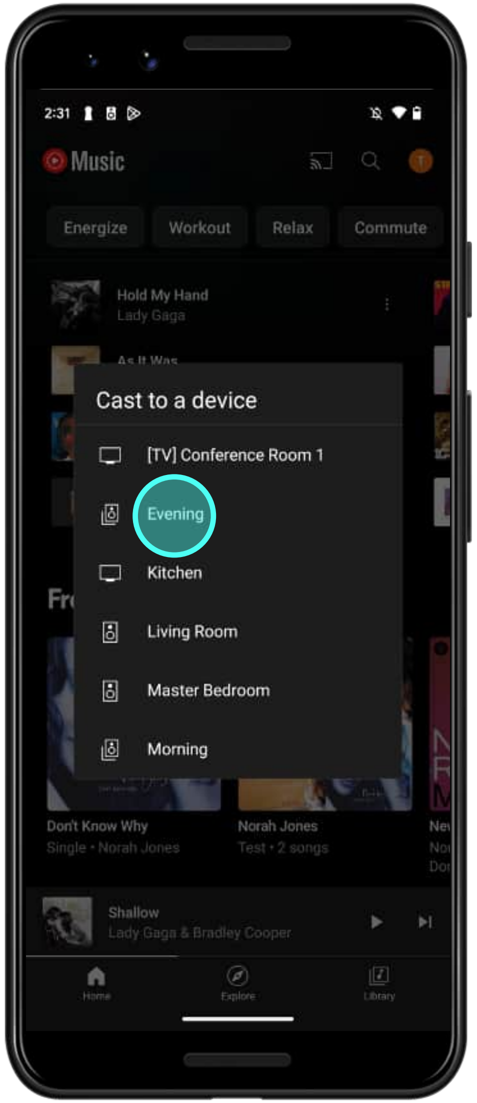

2:31
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Fr
Don't Know Why
Single • Norah Jones
Norah Jones
Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

Cast to a device

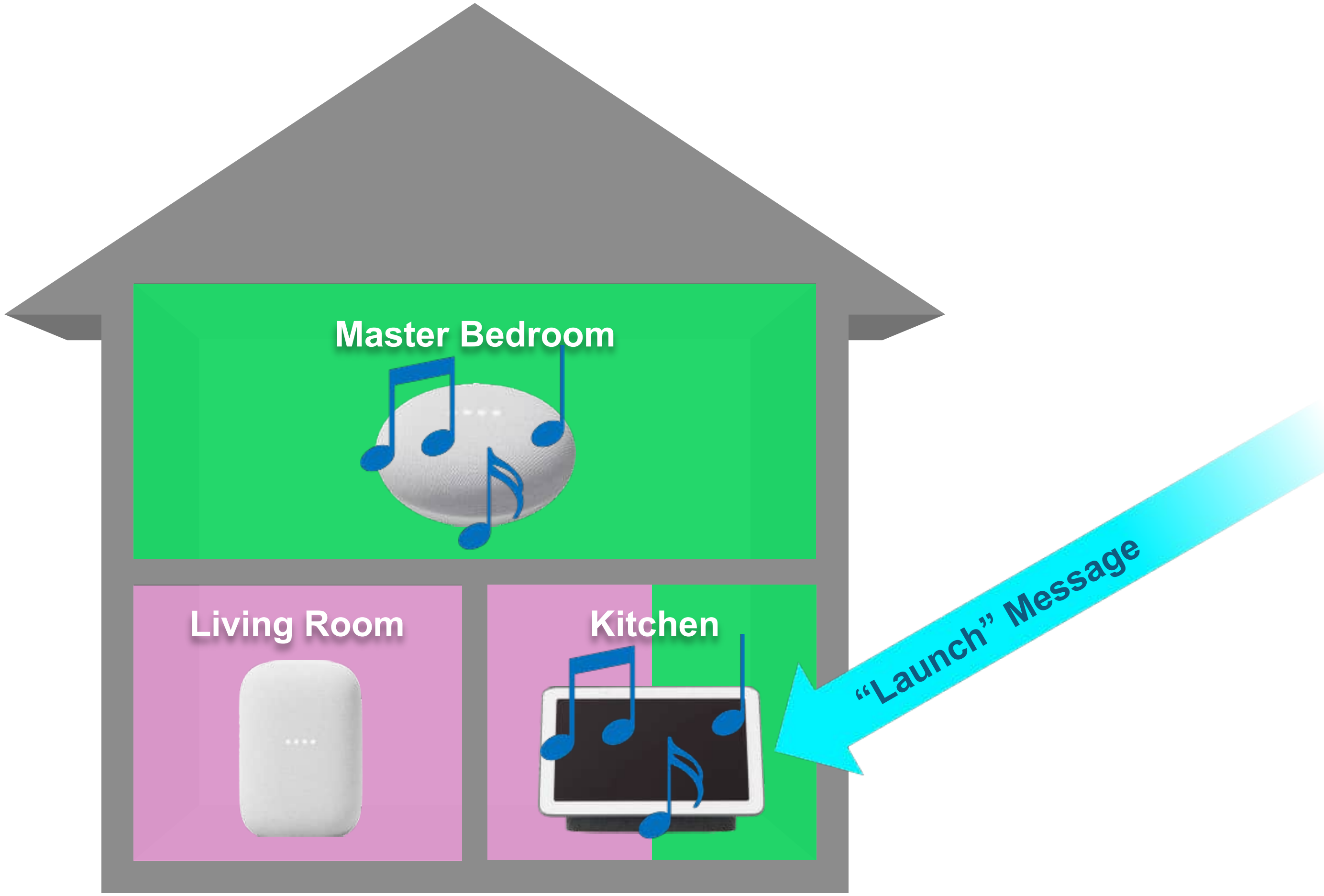
- [TV] Conference Room 1
- Evening
- Kitchen
- Living Room
- Master Bedroom
- Morning

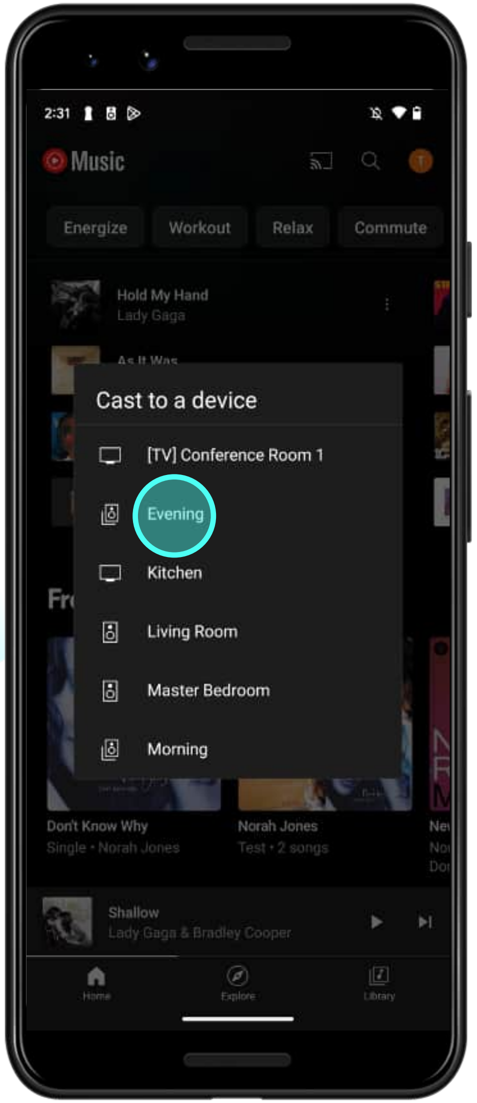
Invoking the Second Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen

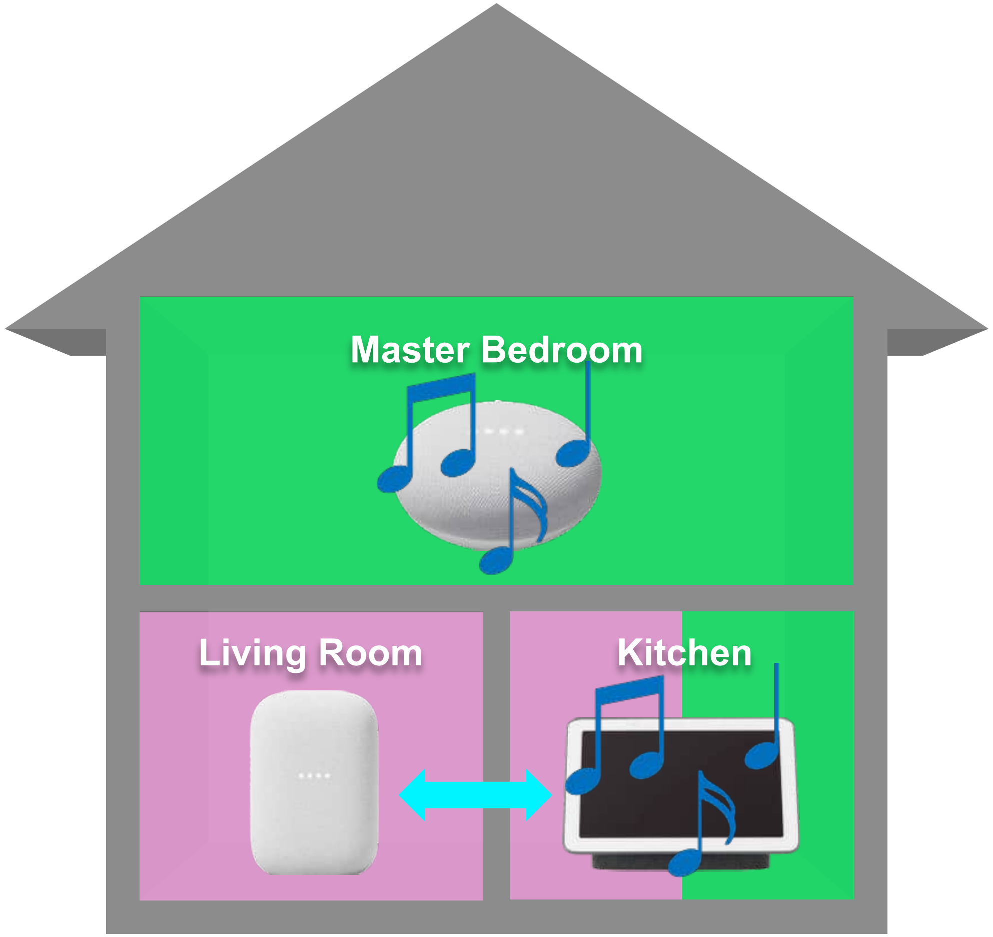

2:31
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Cast to a device
[TV] Conference Room 1
Evening
Kitchen
Living Room
Master Bedroom
Morning
Don't Know Why
Single • Norah Jones
Norah Jones
Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

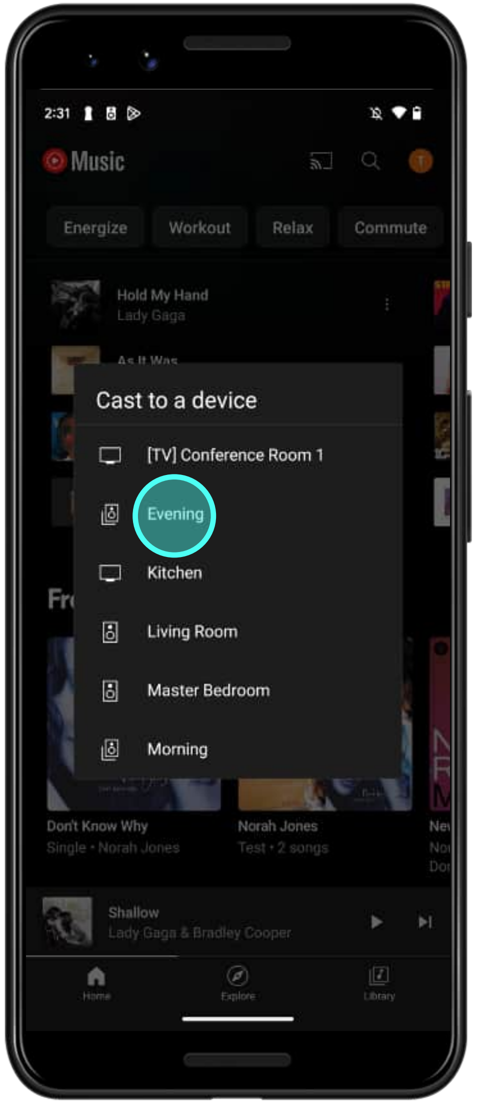
Invoking the Second Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen
"Launch" Message

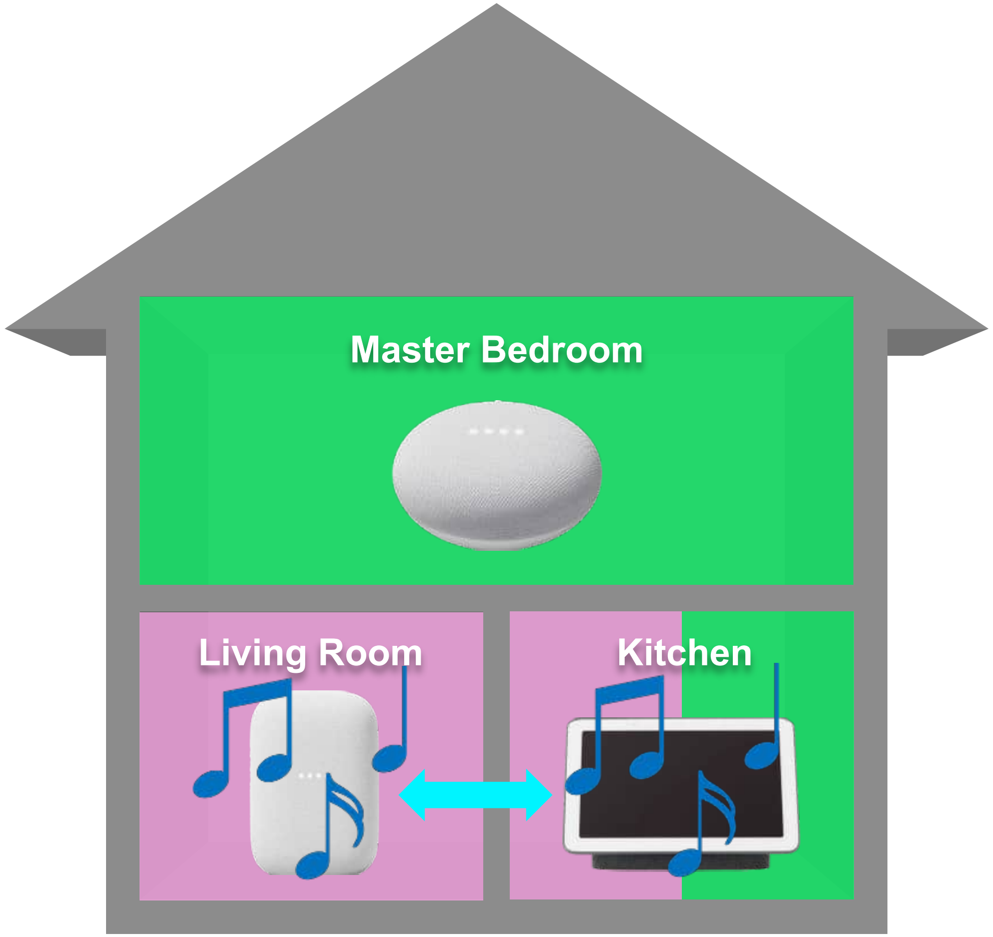

2:31
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Cast to a device
[TV] Conference Room 1
Evening
Kitchen
Living Room
Master Bedroom
Morning
Don't Know Why
Single • Norah Jones
Norah Jones
Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

Invoking the Second Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen


2:31
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Cast to a device
[TV] Conference Room 1
Evening
Kitchen
Living Room
Master Bedroom
Morning
Don't Know Why
Single • Norah Jones
Norah Jones
Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

Invoking the Second Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen

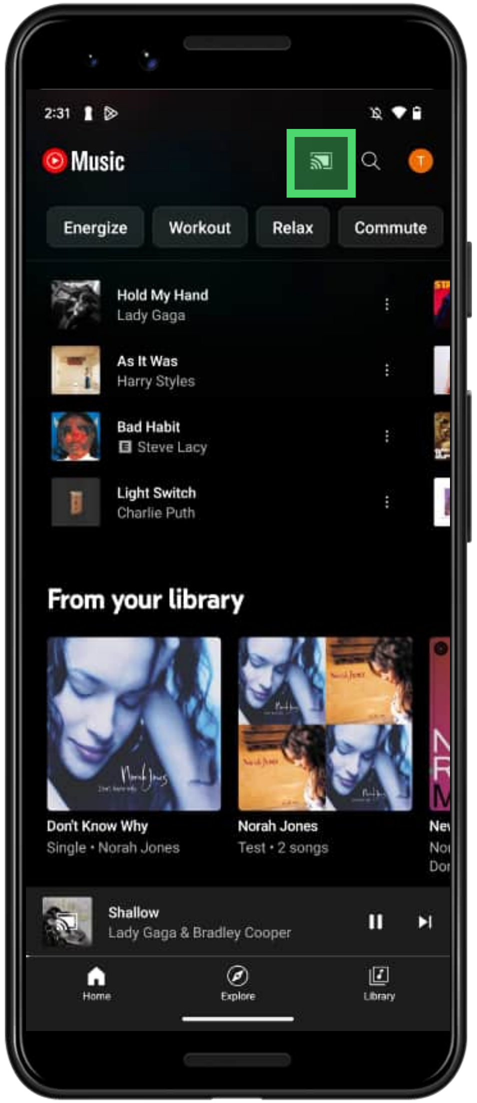
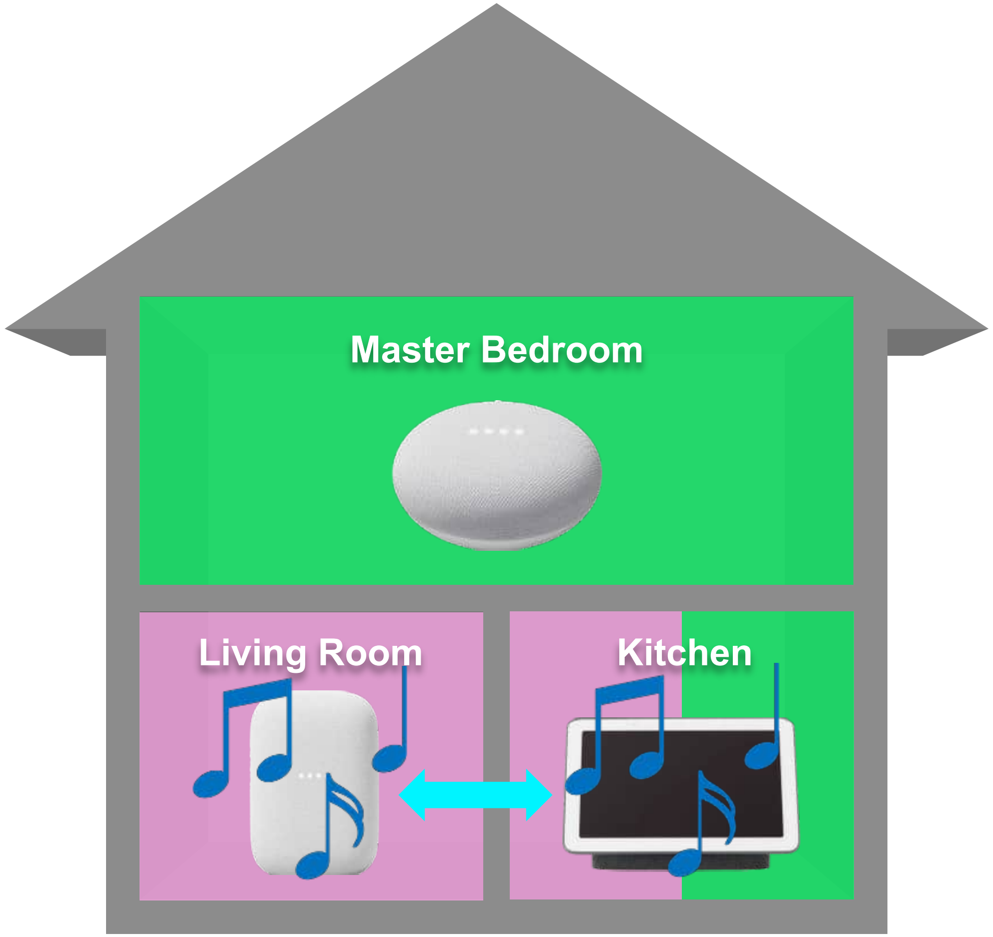
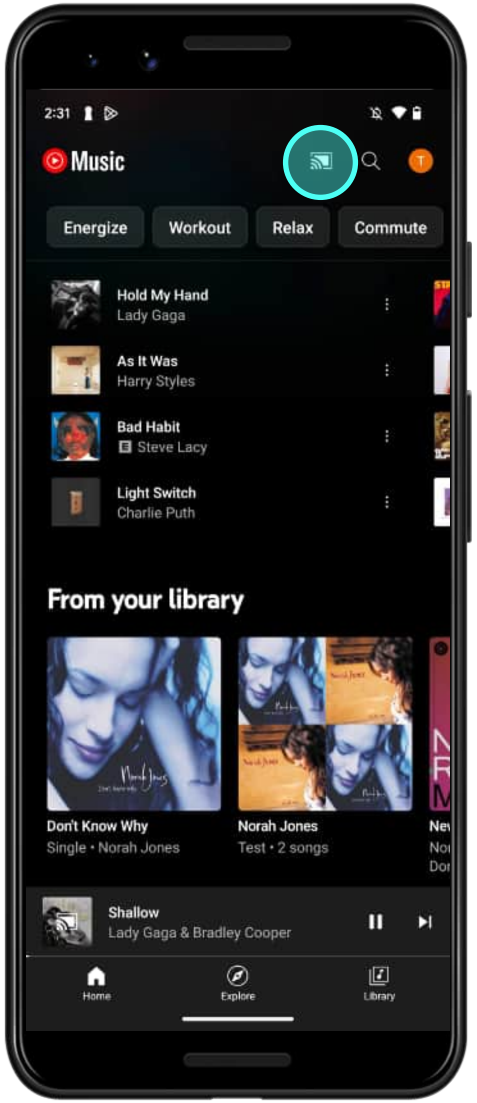

2:31
Music
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Harry Styles
Bad Habit
Steve Lacy
Light Switch
Charlie Puth
From your library
Don't Know Why
Single • Norah Jones
Norah Jones
Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

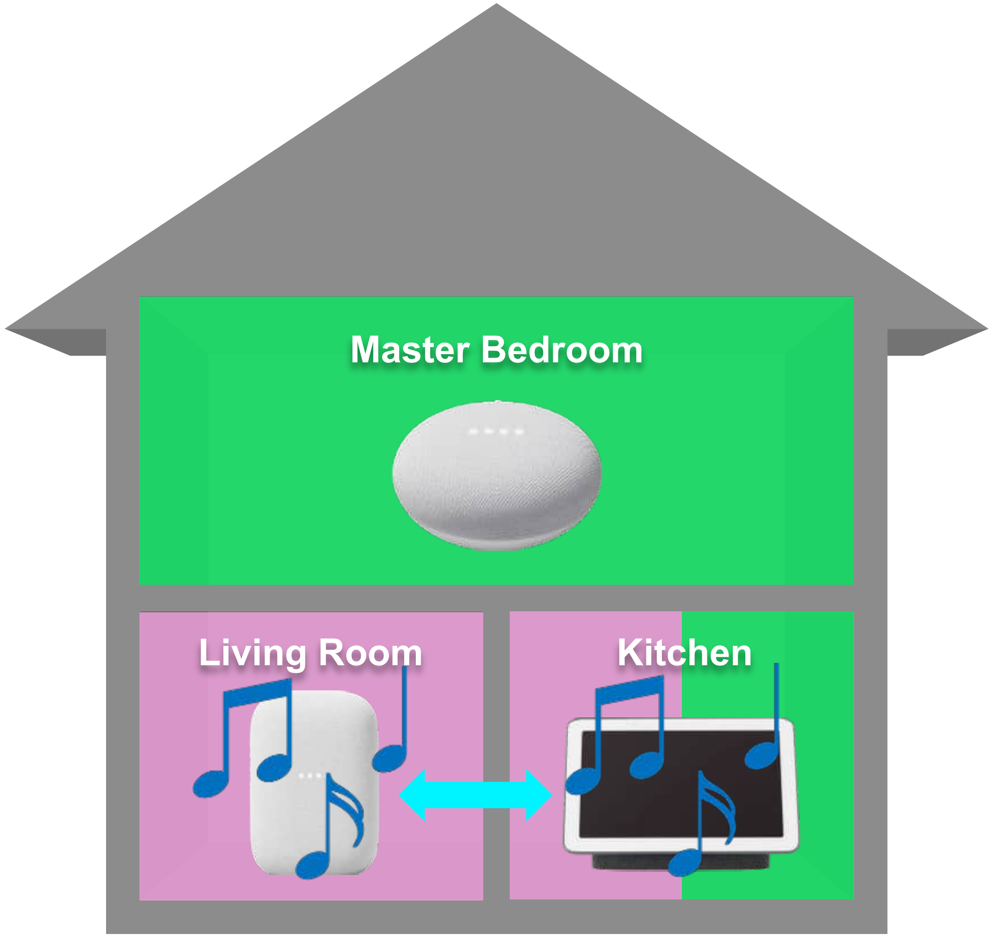
EXHIBIT A - FILED UNDER SEAL

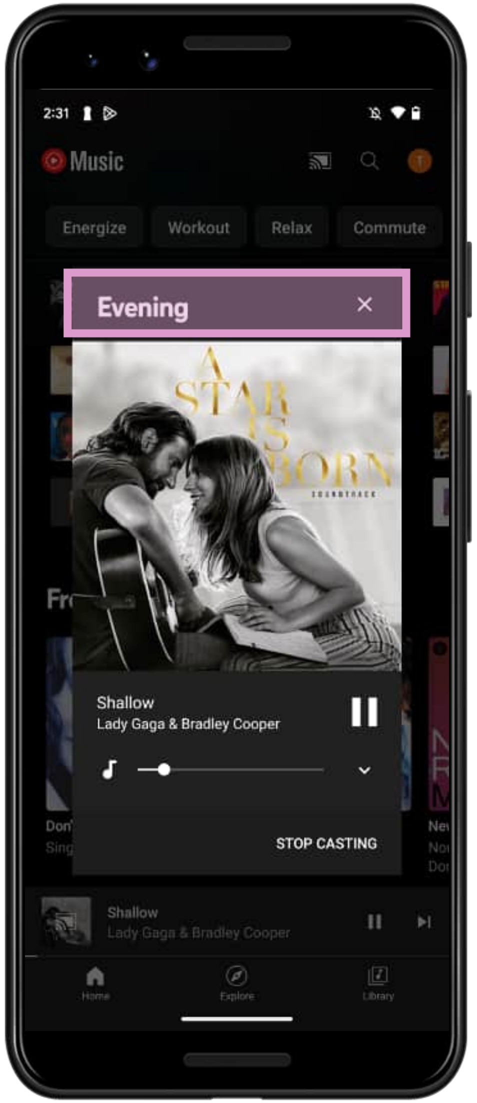
Invoking the Second Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen


2:31
Music
T
Energize
Workout
Relax
Commute
Hold My Hand
Lady Gaga
As It Was
Harry Styles
Bad Habit
Steve Lacy
Light Switch
Charlie Puth
From your library
Don't Know Why
Single • Norah Jones
Norah Jones
Test • 2 songs
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

Invoking the Second Speaker Group via YouTube Music App


Master Bedroom
Living Room
Kitchen


2:31
Music
Energize
Workout
Relax
Commute
Evening
A STAR IS BORN
SOUNDTRACK
Shallow
Lady Gaga & Bradley Cooper
STOP CASTING
Shallow
Lady Gaga & Bradley Cooper
Home
Explore
Library

Invoking the First Speaker Group

Spotify App (No Active Playback)

Invoking the First Speaker Group

- Google’s Third Supplemental Response to Sonos’s Interrogatory No. 13
- Testimony from Google’s corporate designees
  - Kenneth MacKay
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  - “Create and manage speaker groups” [GOOG-SONOSWDTX-00007068-74]
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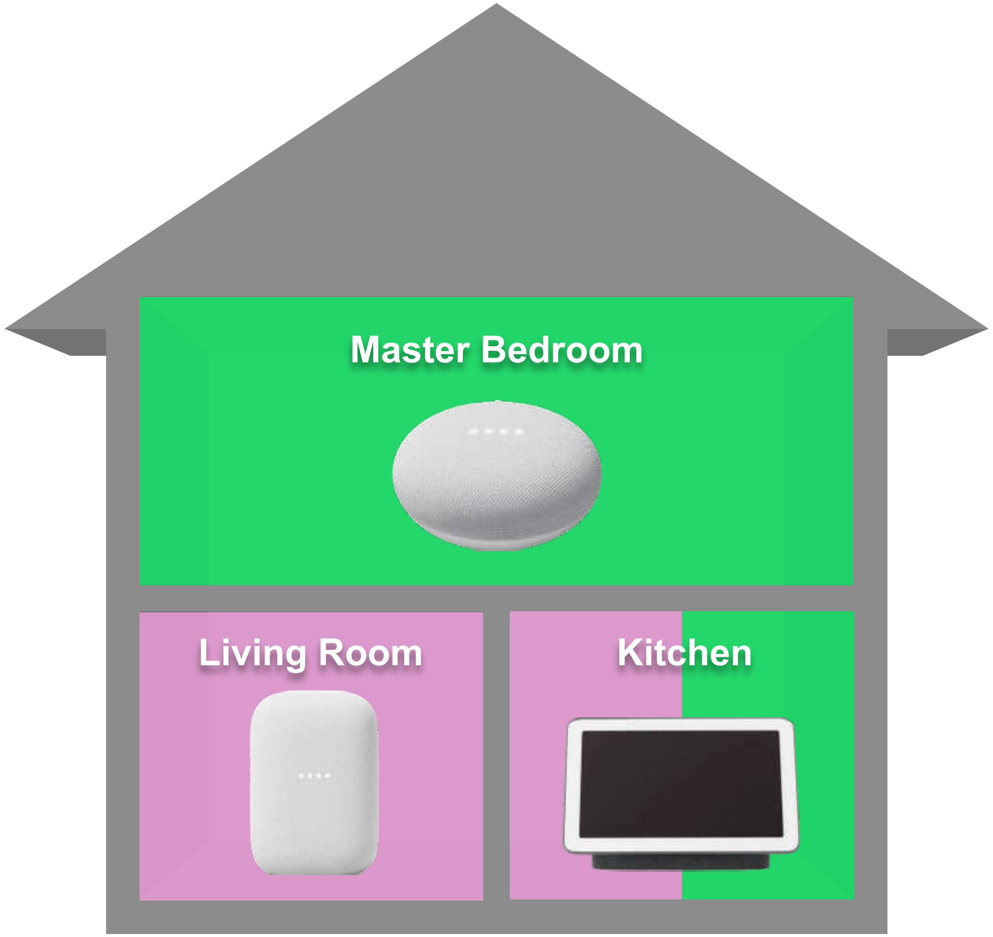
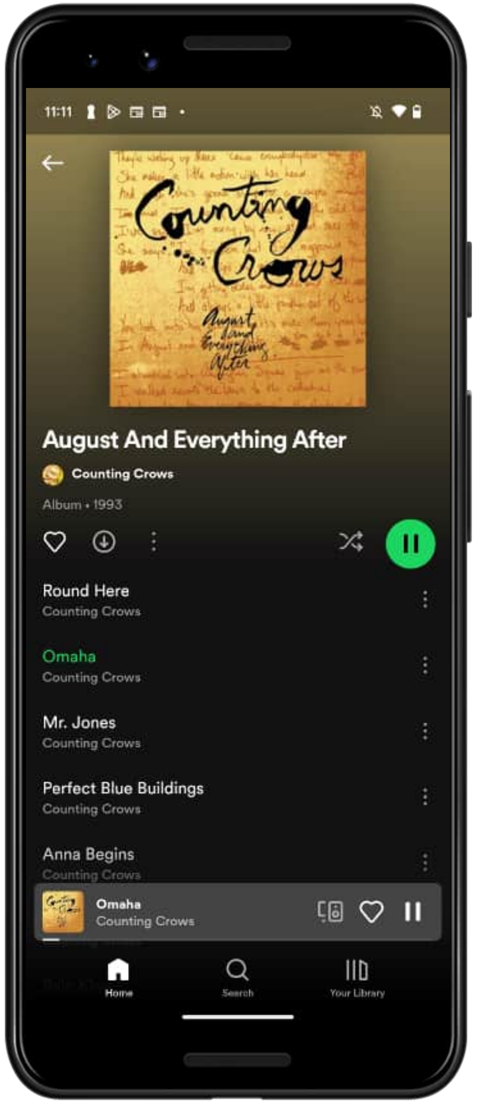
  - “Multizone Audio Design” [GOOG-SONOSWDTX-00040384-96]
- Google’s Source Code

Invoking the First Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen


11:11
Home
Search
Your Library

August And Everything After

Counting Crows

Album • 1993

Round Here
Counting Crows

Omaha
Counting Crows

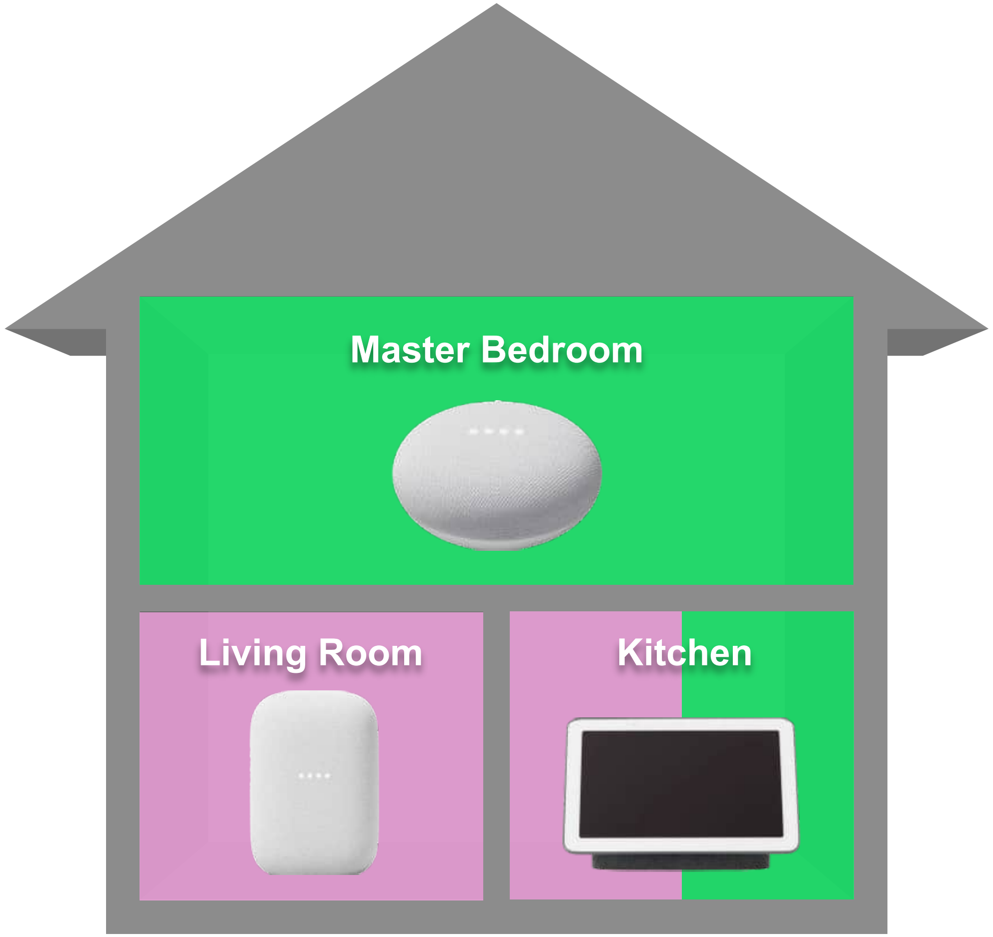
Mr. Jones
Counting Crows

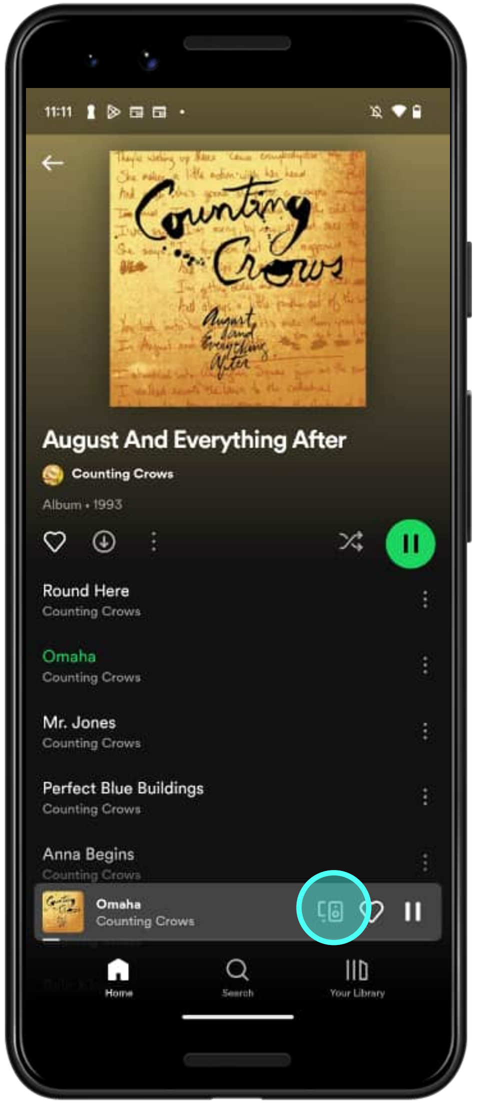
Perfect Blue Buildings
Counting Crows

Anna Begins
Counting Crows

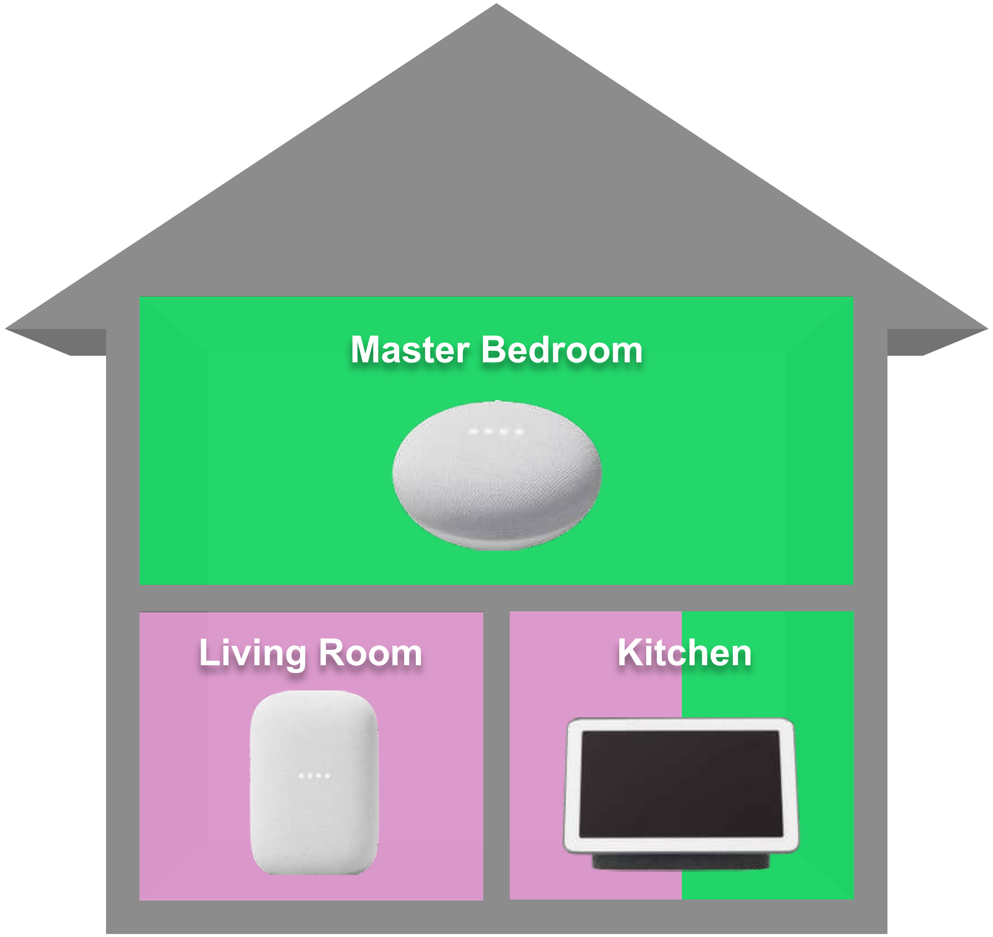
Omaha
Counting Crows

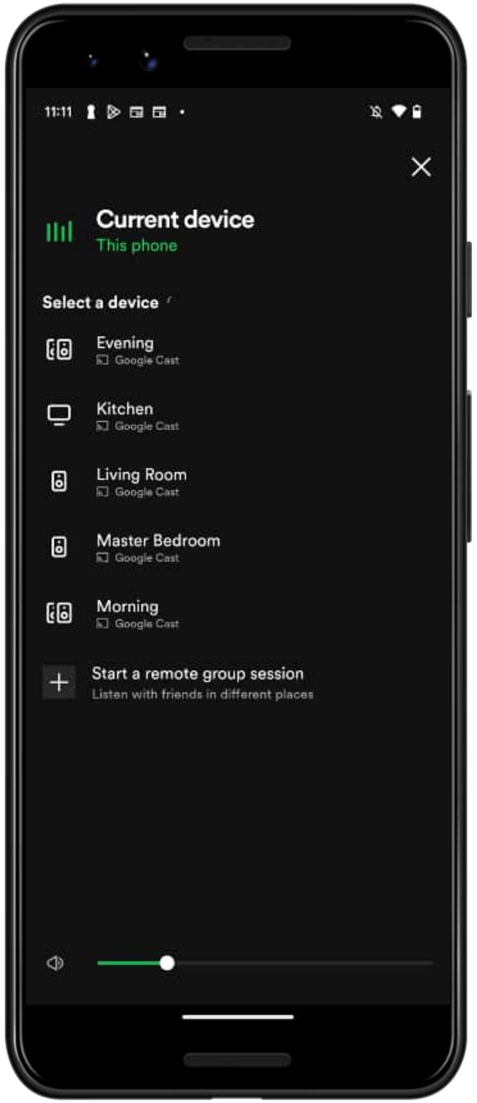
Invoking the First Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen


11:11
August And Everything After
Counting Crows
Album • 1993
Round Here
Counting Crows
Omaha
Counting Crows
Mr. Jones
Counting Crows
Perfect Blue Buildings
Counting Crows
Anna Begins
Counting Crows
Omaha
Counting Crows
Home
Search
Your Library

Invoking the First Speaker Group via Spotify App




11:11

Current device
This phone

Select a device

Evening
Google Cast

Kitchen
Google Cast

Living Room
Google Cast

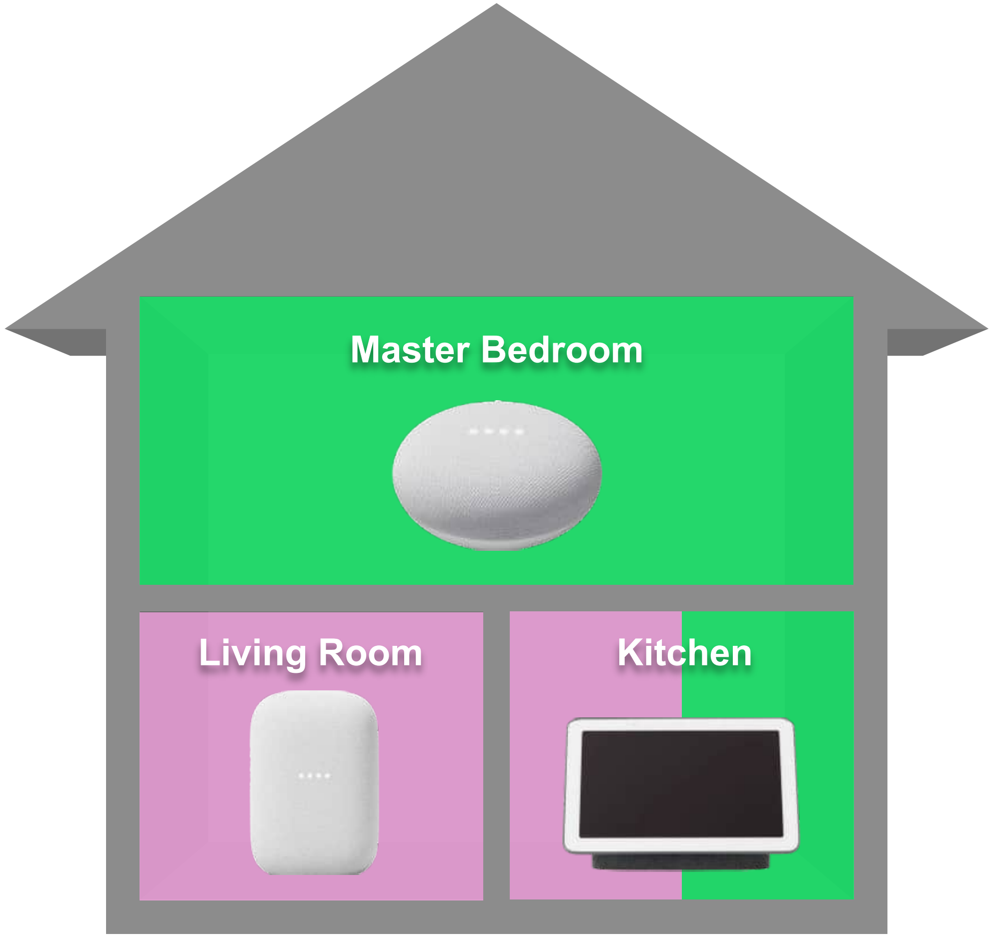
Master Bedroom
Google Cast

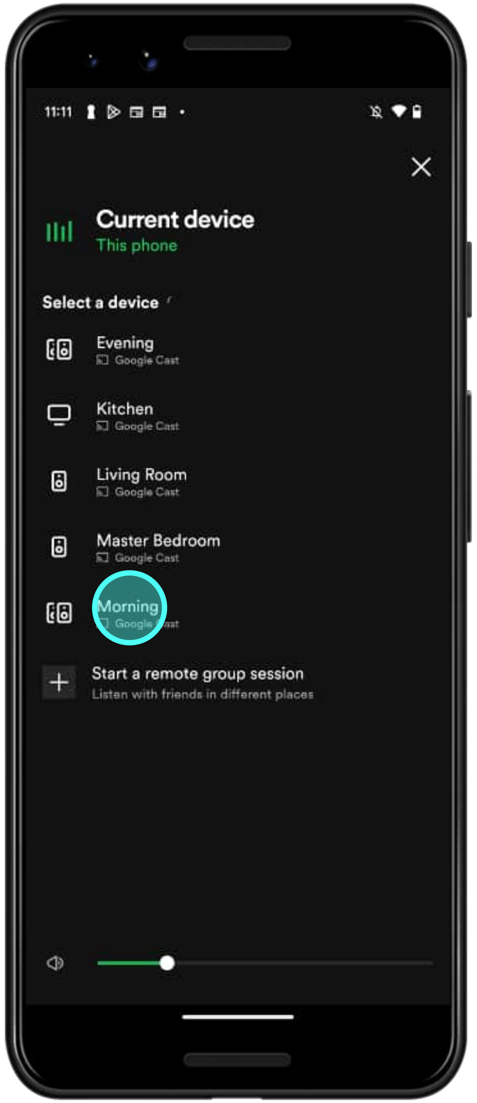
Morning
Google Cast

Start a remote group session
Listen with friends in different places

EXHIBIT A - FILED UNDER SEAL

Invoking the First Speaker Group via Spotify App




11:11

Current device
This phone

Select a device

Evening
Google Cast

Kitchen
Google Cast

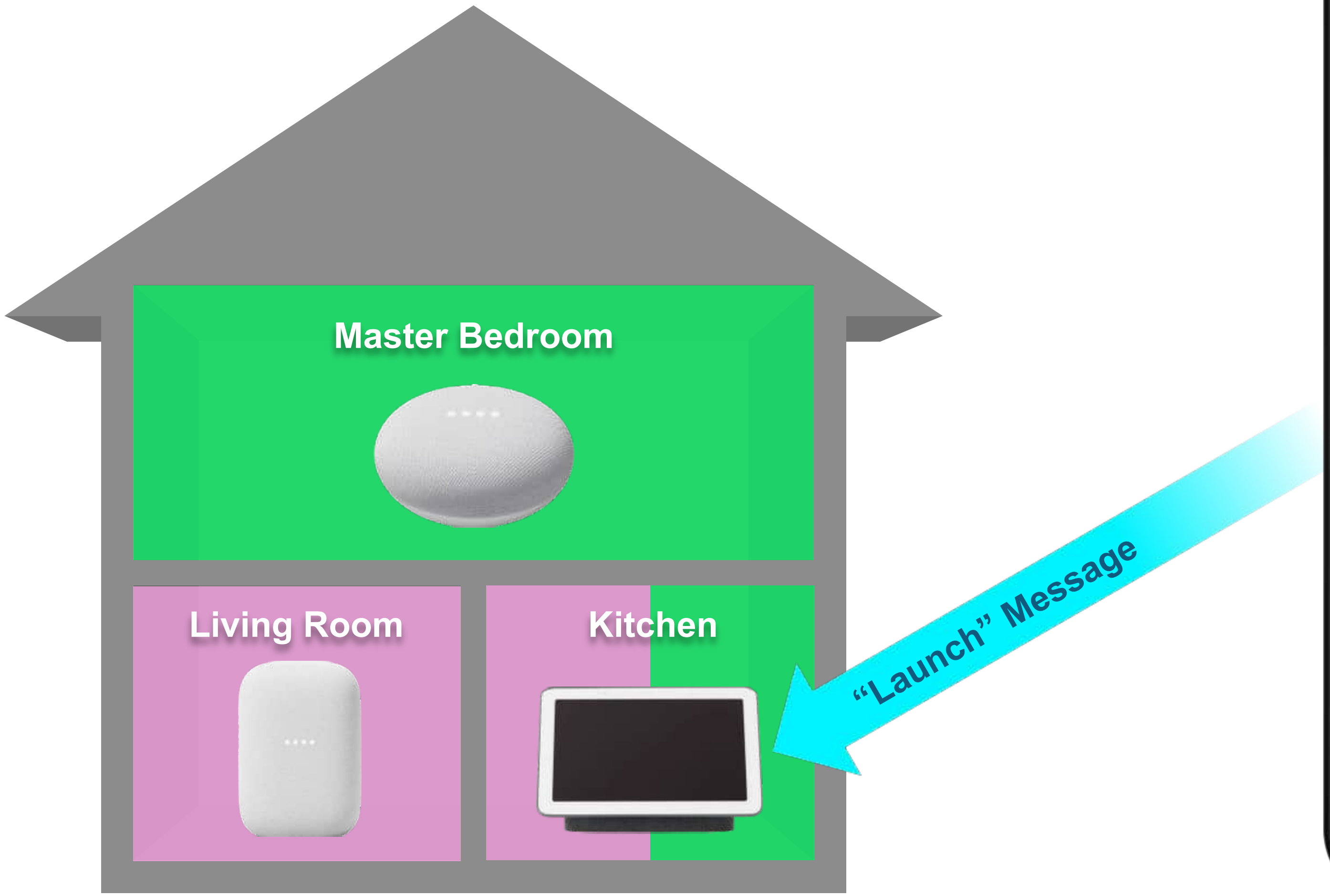
Living Room
Google Cast

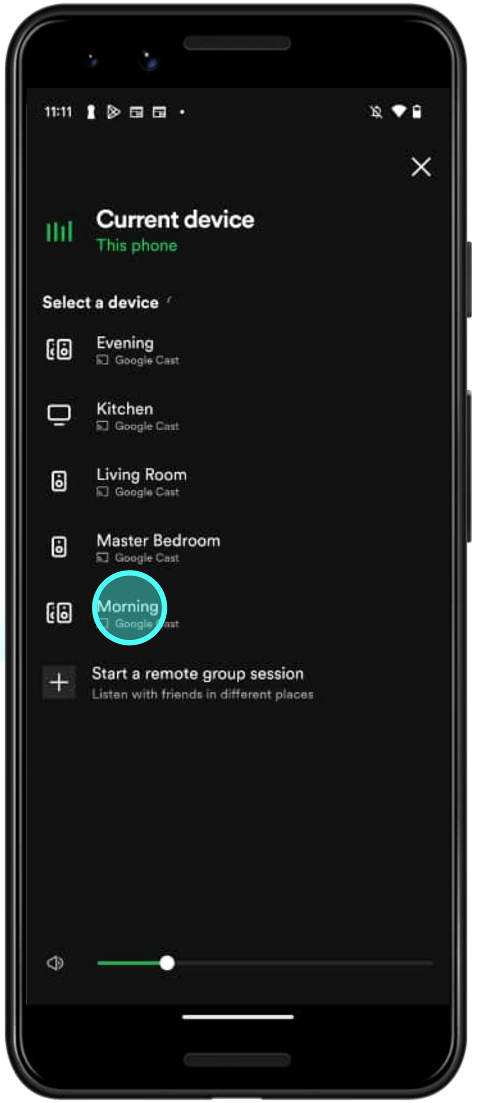
Master Bedroom
Google Cast

Morning
Google Cast

Start a remote group session
Listen with friends in different places

Invoking the First Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen
"Launch" Message



Current device
This phone

Select a device

Evening
Google Cast

Kitchen
Google Cast

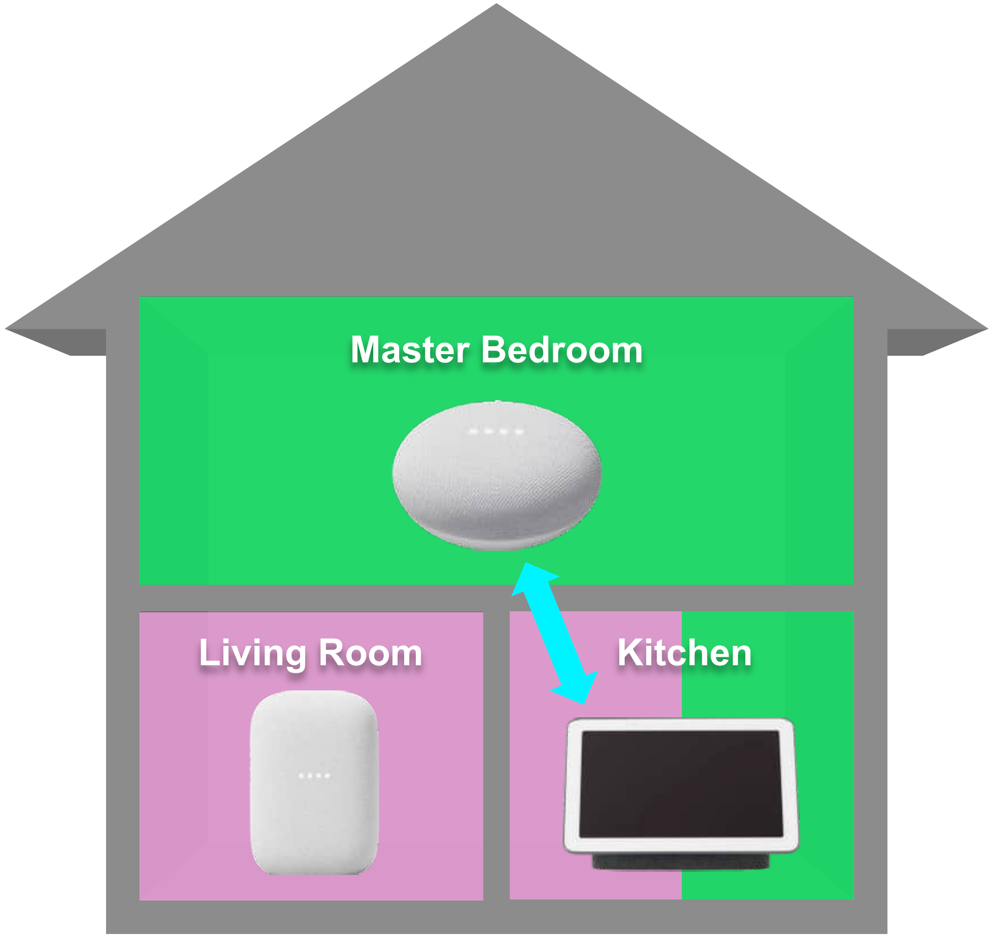
Living Room
Google Cast

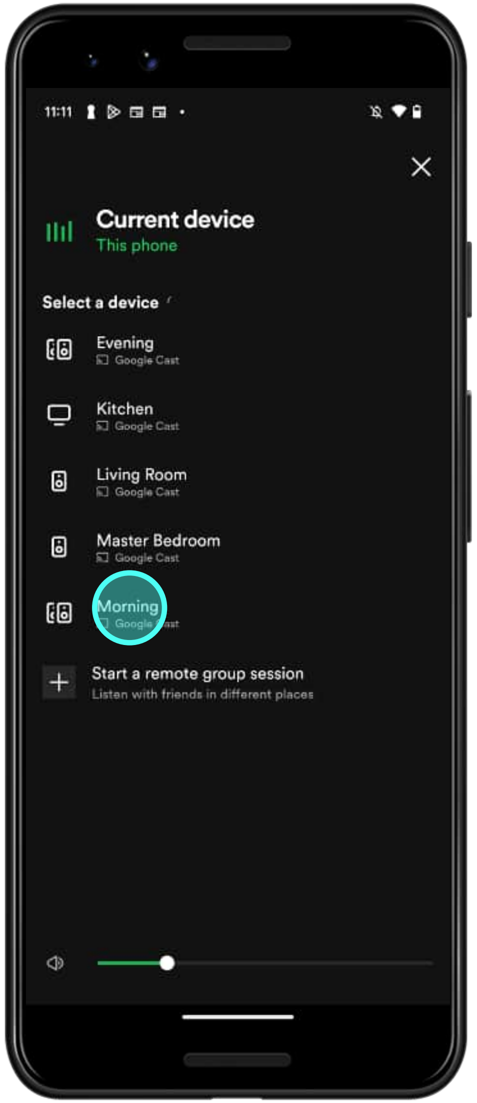
Master Bedroom
Google Cast

Morning
Google Cast

＋ Start a remote group session
Listen with friends in different places

Invoking the First Speaker Group via Spotify App




11:11

Current device
This phone

Select a device

Evening
Google Cast

Kitchen
Google Cast

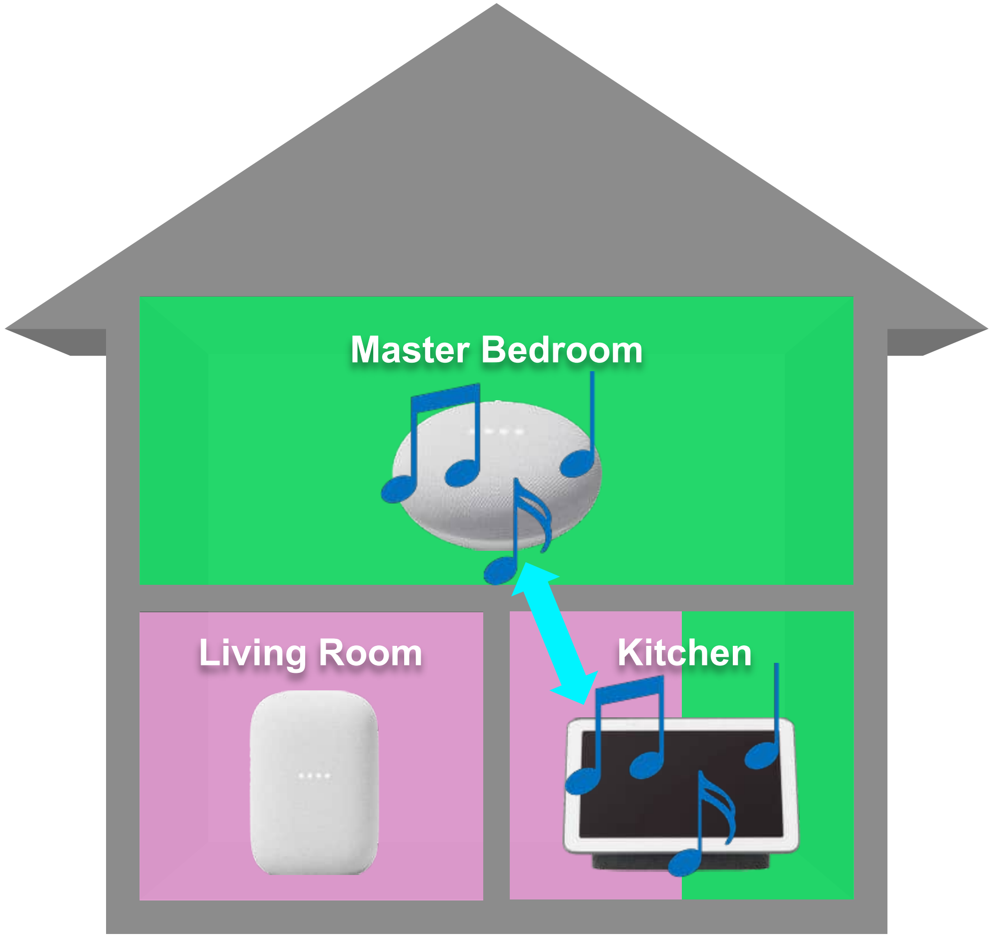
Living Room
Google Cast

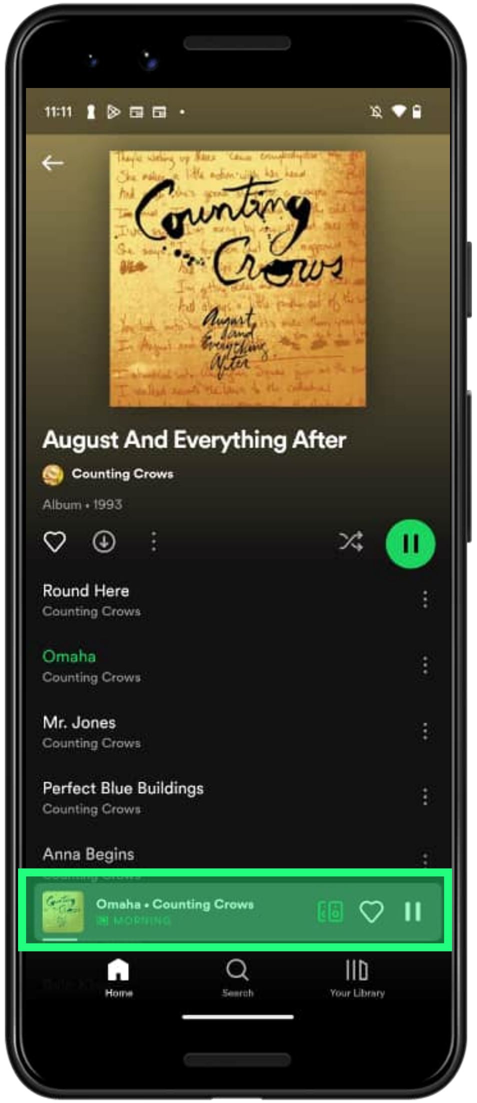
Master Bedroom
Google Cast

Morning
Google Cast

Start a remote group session
Listen with friends in different places

Invoking the First Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen


11:11
Home
Search
Your Library

August And Everything After

Counting Crows

Album • 1993

Round Here	Counting Crows
Omaha	Counting Crows
Mr. Jones	Counting Crows
Perfect Blue Buildings	Counting Crows
Anna Begins	

Omaha • Counting Crows

EXHIBIT A - FILED UNDER SEAL

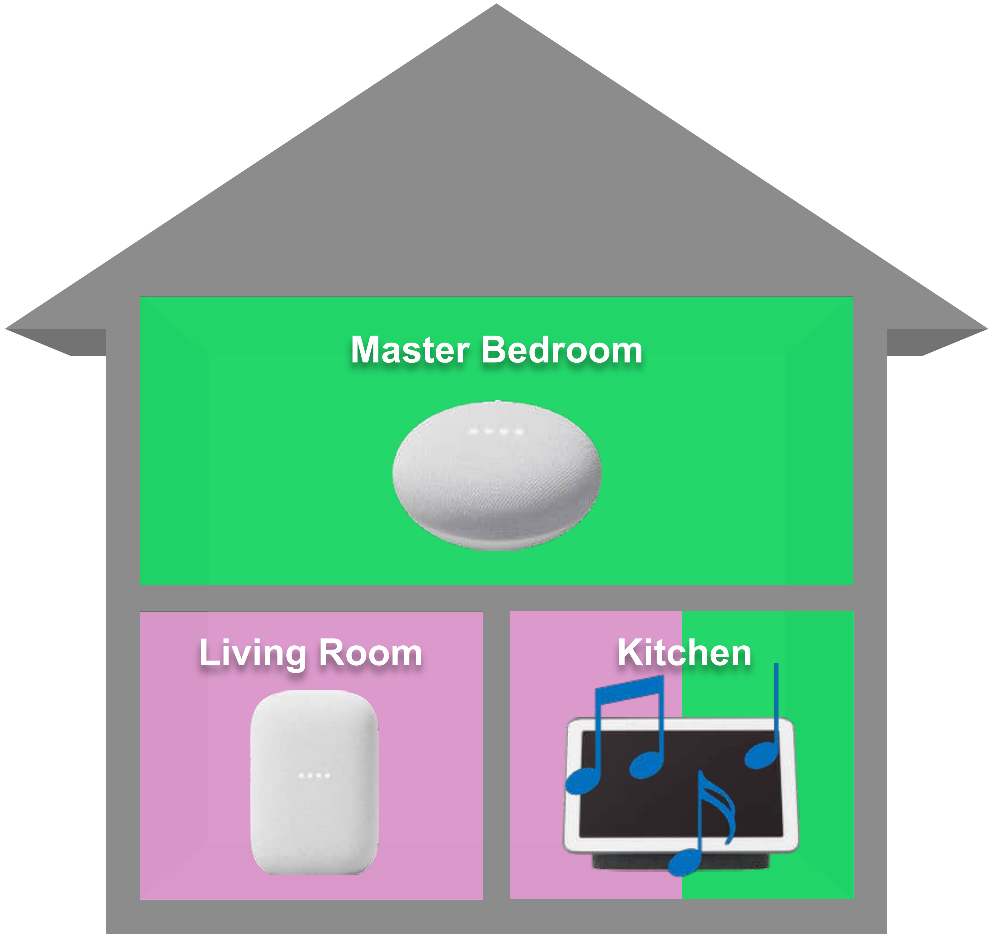
Invoking the First Speaker Group

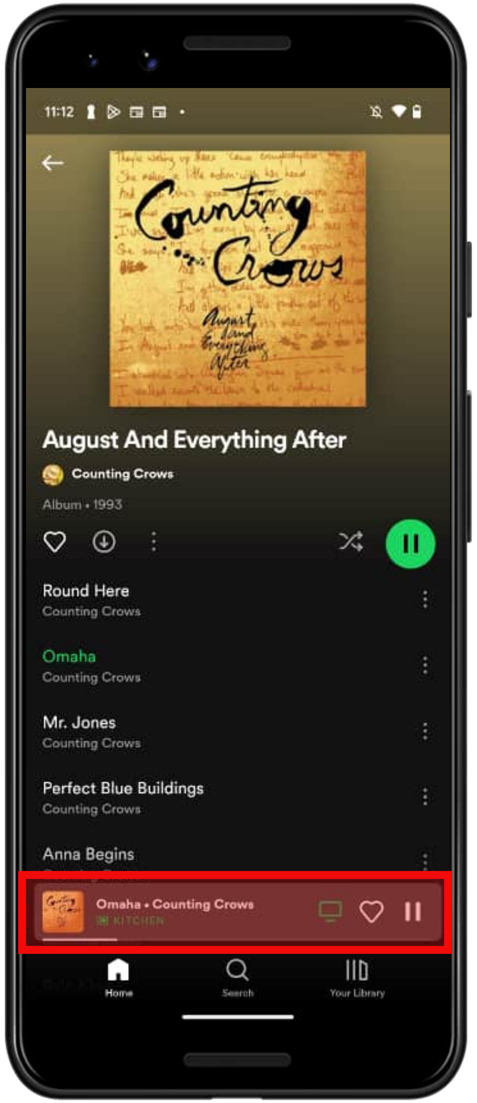
Spotify App (Active Playback on Kitchen)

Invoking the First Speaker Group

- Google’s Third Supplemental Response to Sonos’s Interrogatory No. 13
- Testimony from Google’s corporate designees
  - Kenneth MacKay
  - Justin Pedro
- Google Documents
  - “Create and manage speaker groups” [GOOG-SONOSWDTX-00007068-74]
  - “Group your Google Assistance device” [SONOS-SVG2-00055660-61]
  - “Multizone – cast_shell integration” [GOOG-SONOSWDTX-00048962-66]
  - “Cast for Audio” Initial UX Spec [GOOG-SONOSNDCA-00056732-77]
  - “Multizone Audio Design” [GOOG-SONOSWDTX-00040384-96]
- Google’s Source Code

Invoking the First Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen


11:12

August And Everything After

Counting Crows

Album • 1993

Round Here
Counting Crows

Omaha
Counting Crows

Mr. Jones
Counting Crows

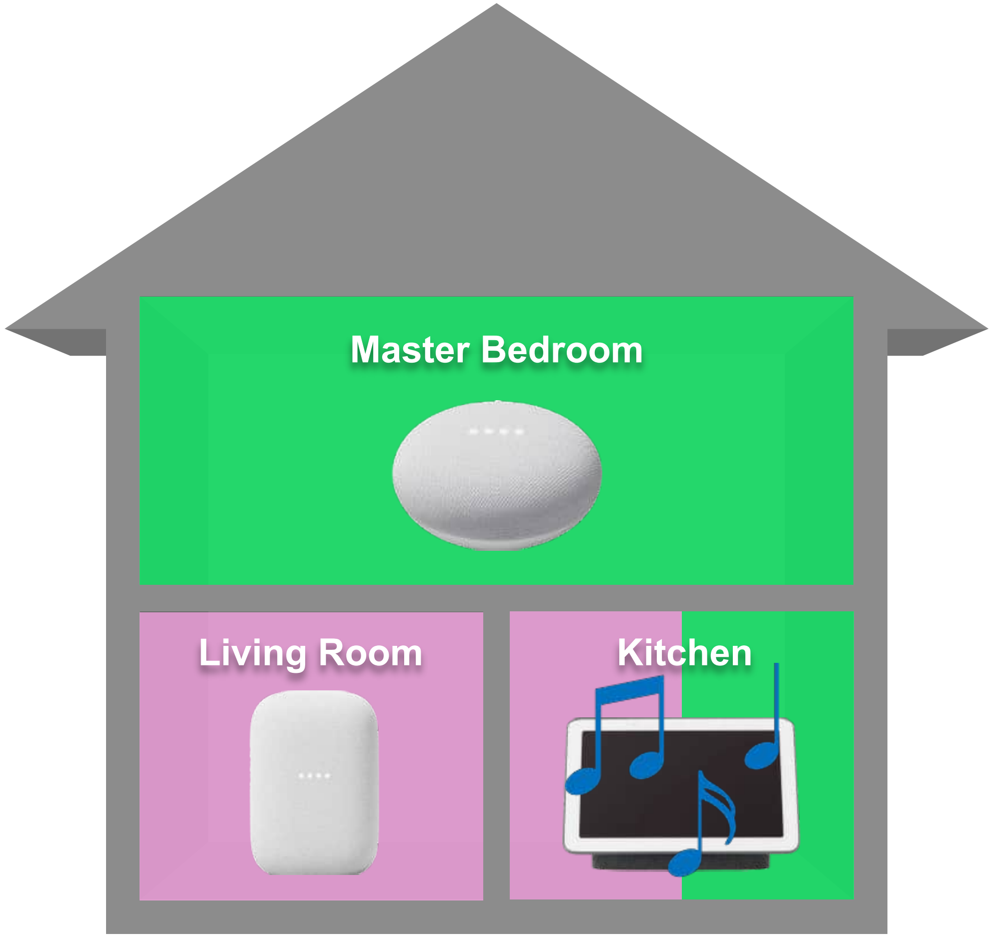
Perfect Blue Buildings
Counting Crows

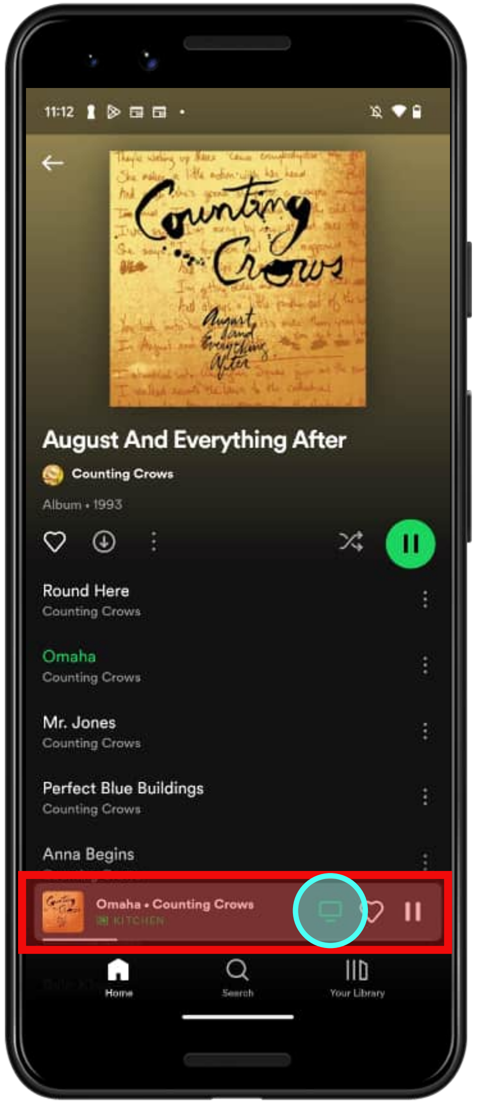
Anna Begins

Omaha • Counting Crows
KITCHEN

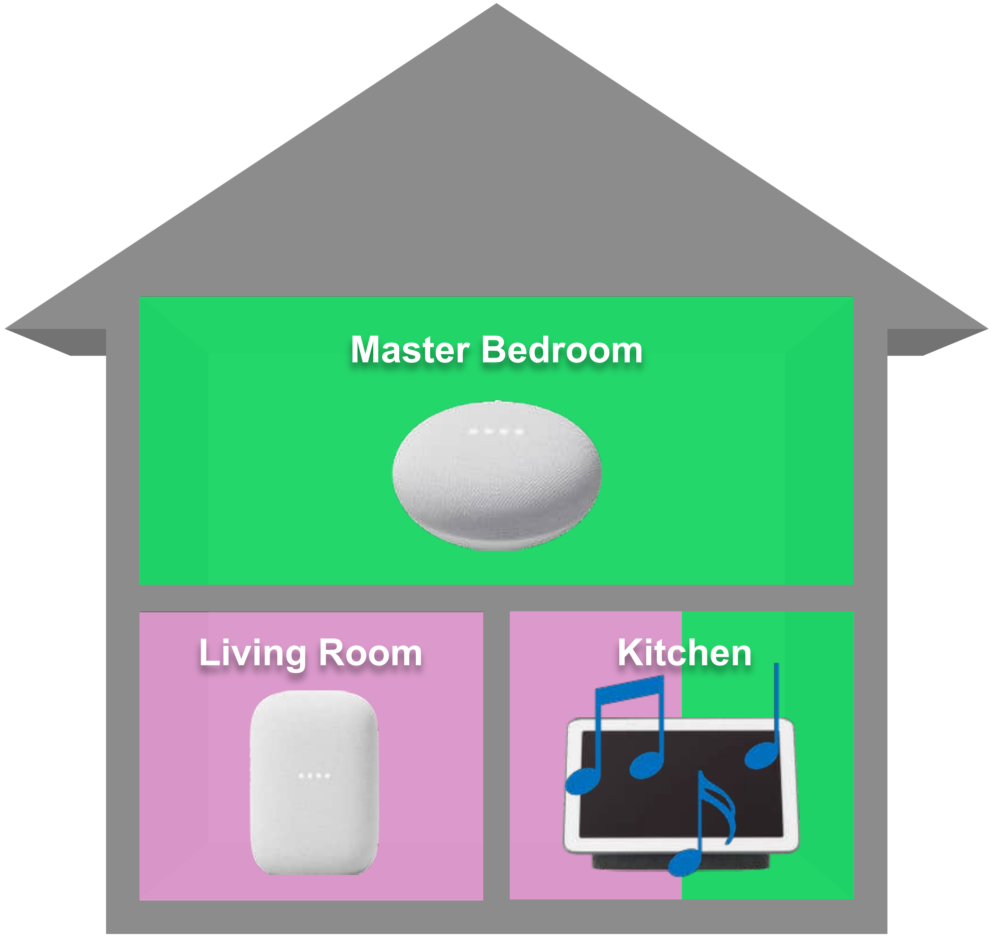
Home
Search
Your Library

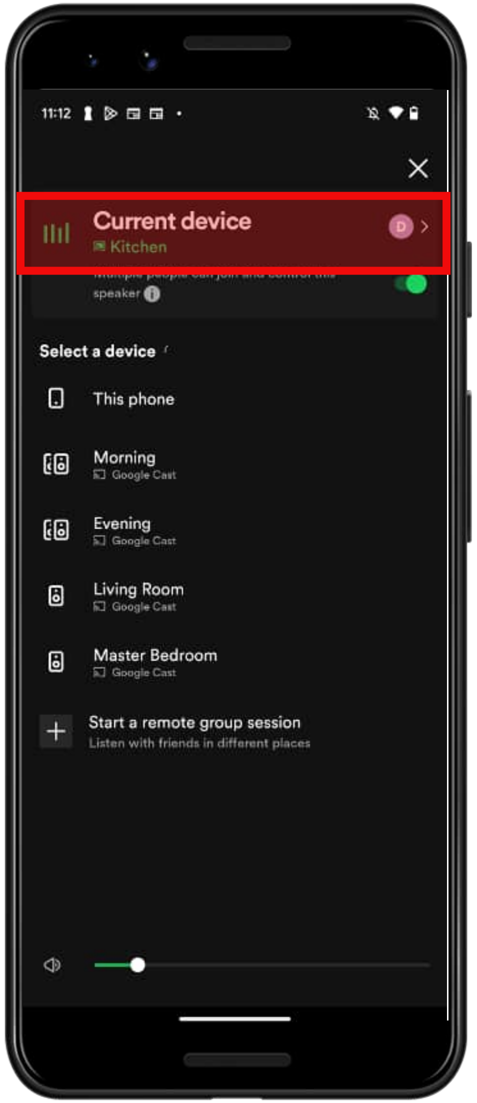
Invoking the First Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen


11:12
August And Everything After
Counting Crows
Album • 1993
Round Here
Counting Crows
Omaha
Counting Crows
Mr. Jones
Counting Crows
Perfect Blue Buildings
Counting Crows
Anna Begins
Omaha • Counting Crows
KITCHEN
Home
Search
Your Library

Invoking the First Speaker Group via Spotify App




11:12

Current device
Kitchen

speaker

Select a device

This phone

Morning
Google Cast

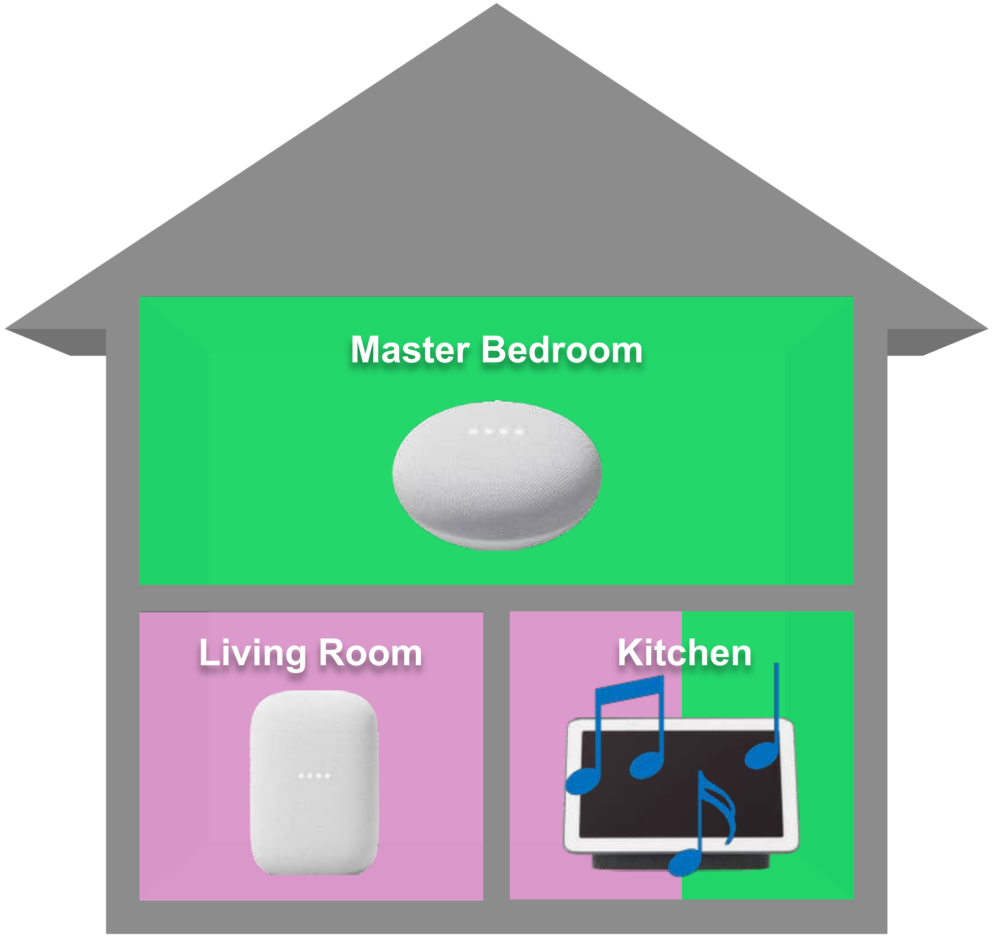
Evening
Google Cast

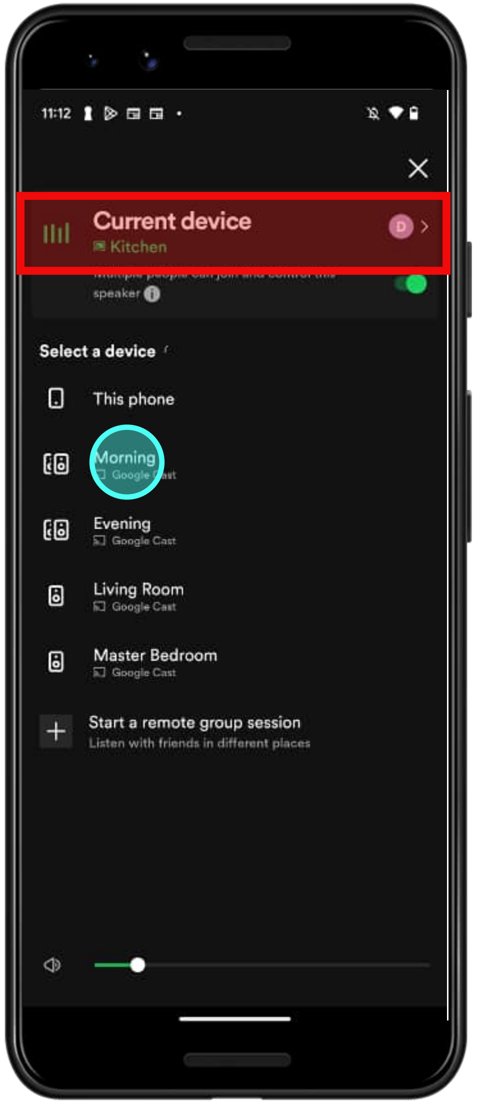
Living Room
Google Cast

Master Bedroom
Google Cast

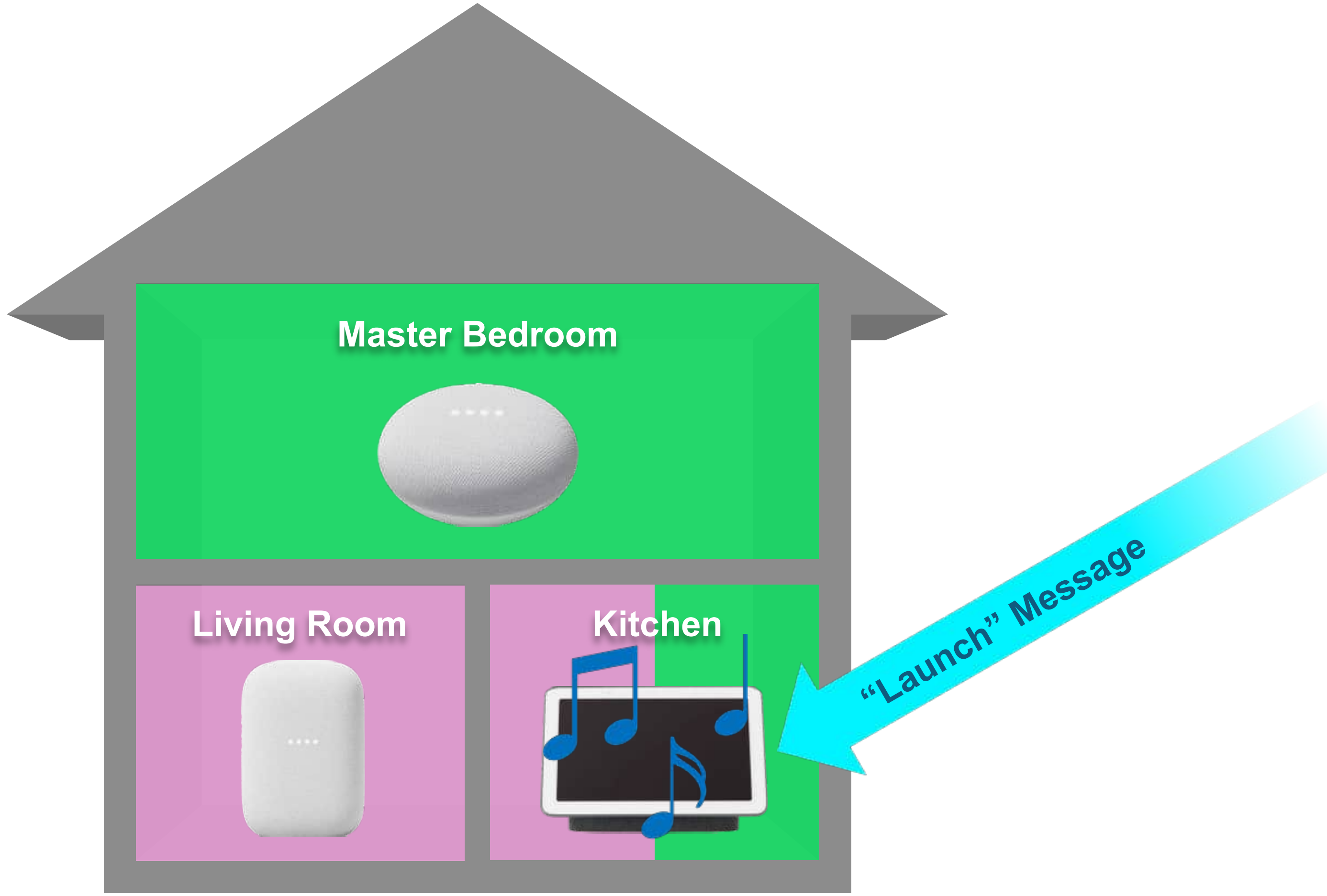
Start a remote group session
Listen with friends in different places

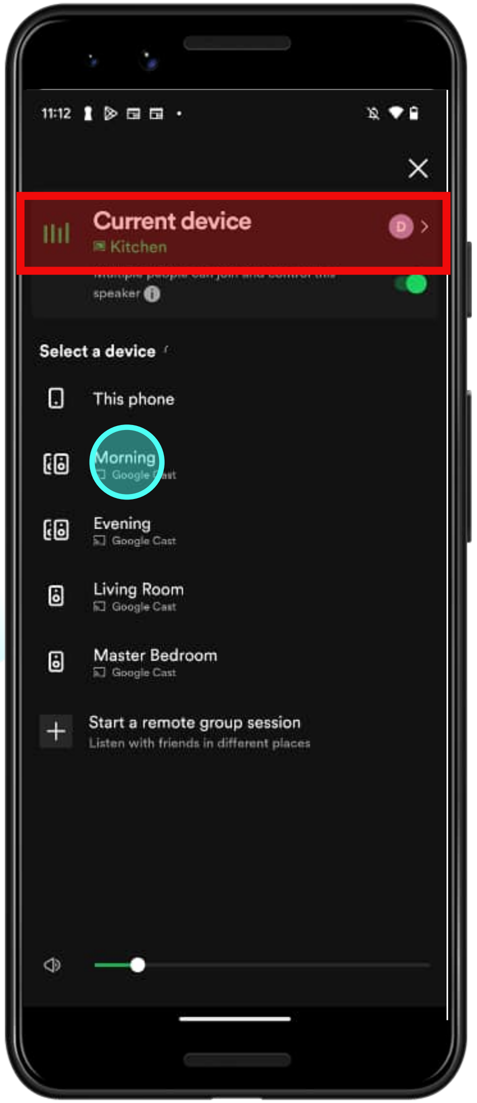
Invoking the First Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen


11:12
Current device
Kitchen
D
speaker
Select a device
This phone
Morning
Google Cast
Evening
Google Cast
Living Room
Google Cast
Master Bedroom
Google Cast
Start a remote group session
Listen with friends in different places

Invoking the First Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen
"Launch" Message



Current device
Kitchen

speaker

Select a device

This phone

Morning
Google Cast

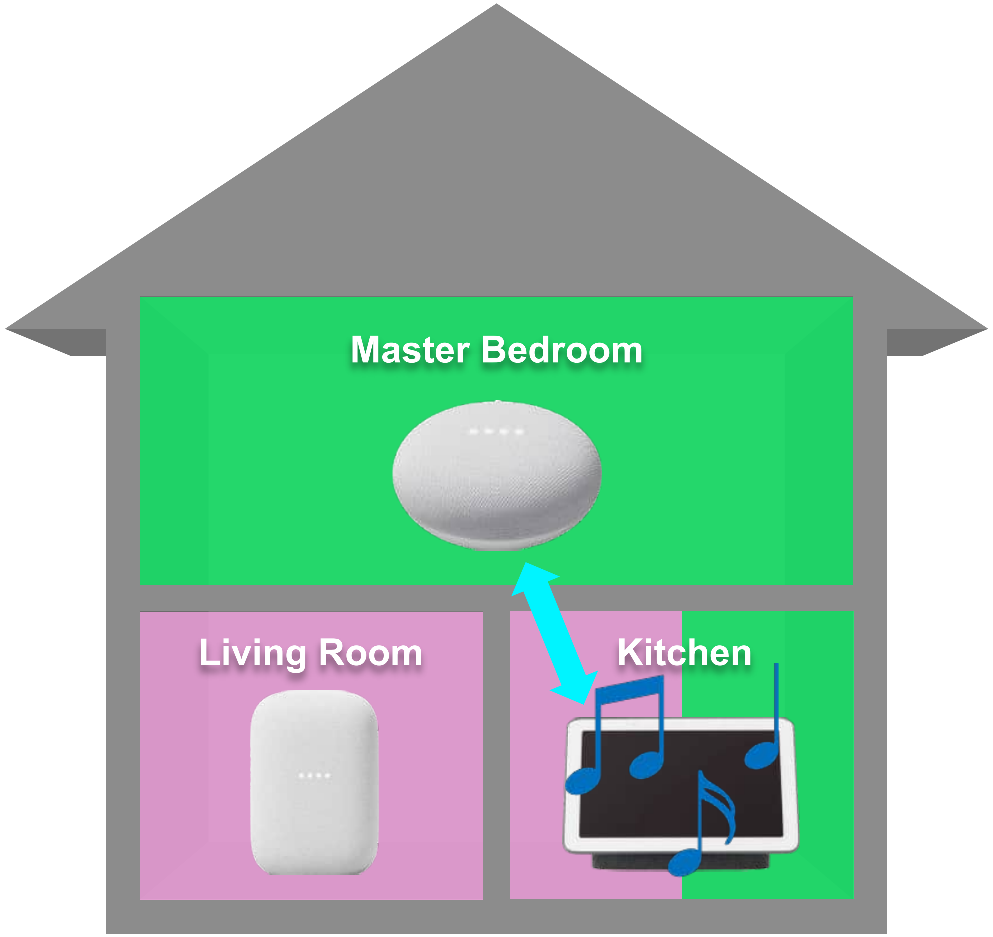
Evening
Google Cast

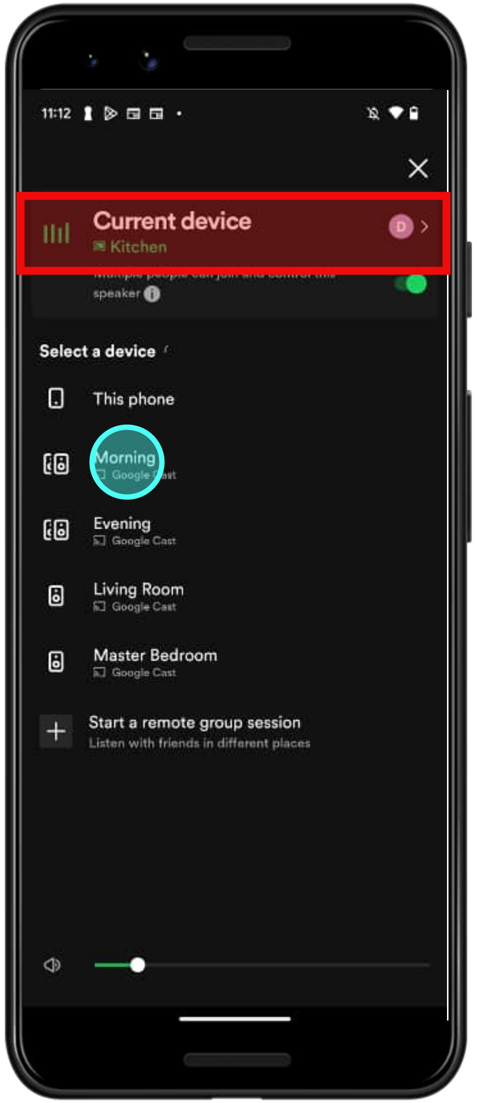
Living Room
Google Cast

Master Bedroom
Google Cast

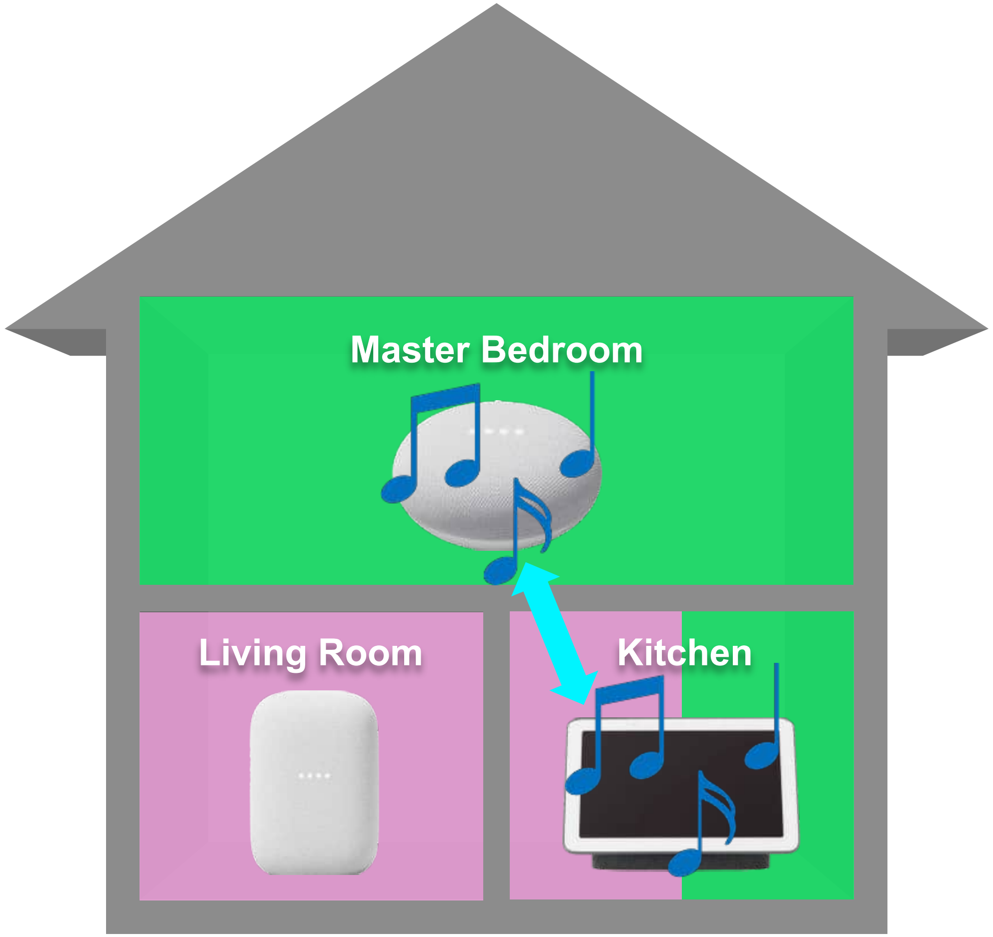
Start a remote group session
Listen with friends in different places

Invoking the First Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen


11:12
Current device
Kitchen
D
speaker
Select a device
This phone
Morning
Google Cast
Evening
Google Cast
Living Room
Google Cast
Master Bedroom
Google Cast
Start a remote group session
Listen with friends in different places

Invoking the First Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen

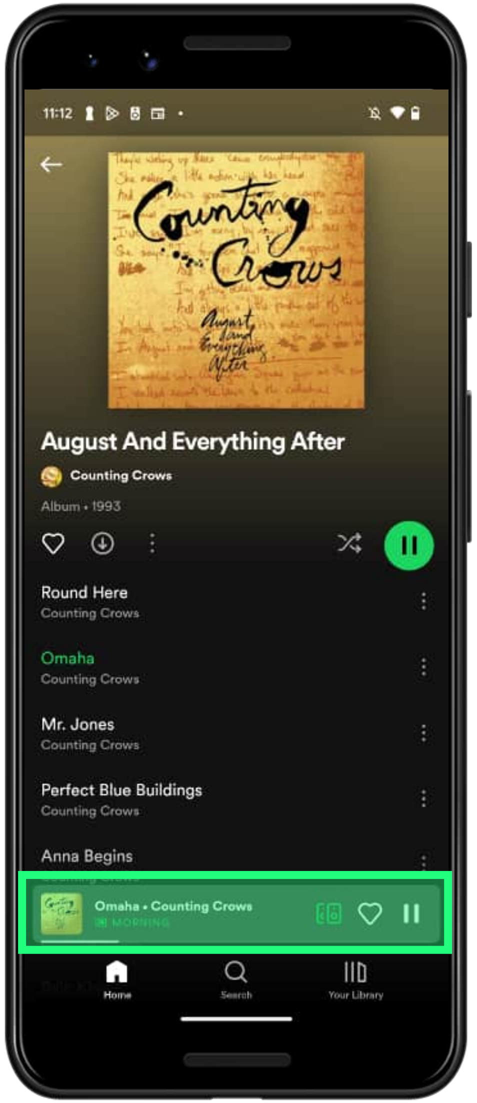

11:12
August And Everything After
Counting Crows
Album • 1993
Round Here
Counting Crows
Omaha
Counting Crows
Mr. Jones
Counting Crows
Perfect Blue Buildings
Counting Crows
Anna Begins
Omaha • Counting Crows
MORNING
Home
Search
Your Library

EXHIBIT A - FILED UNDER SEAL

Invoking the First Speaker Group

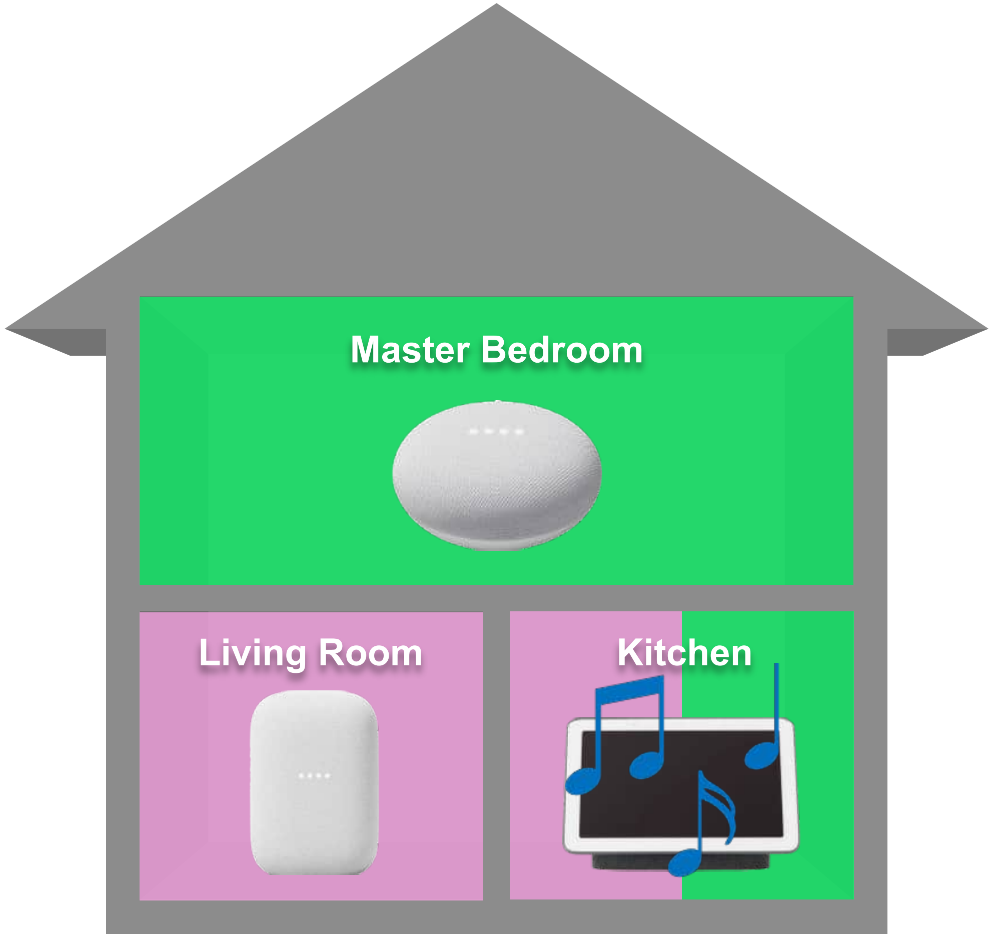
Spotify App (Active Playback on Master Bedroom)

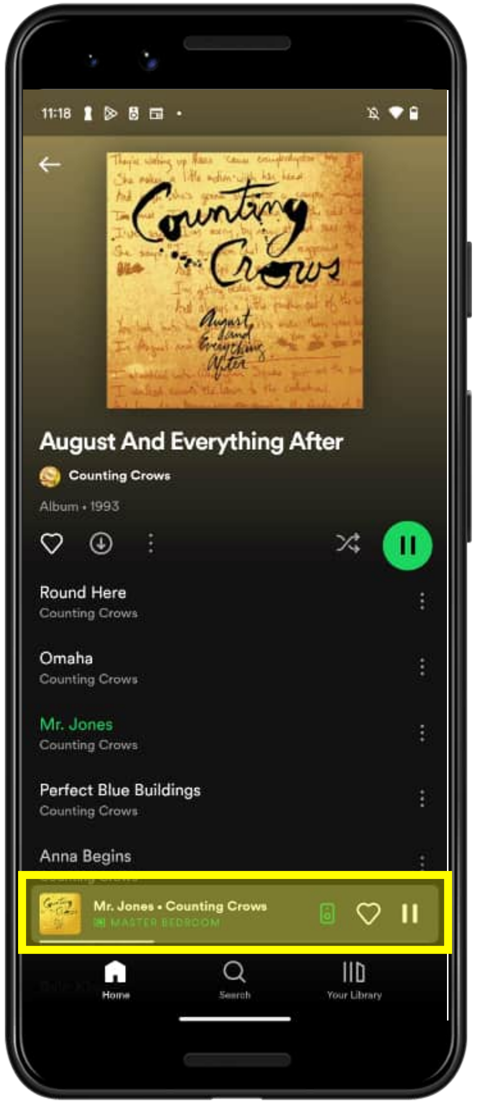
EXHIBIT A - FILED UNDER SEAL

Invoking the First Speaker Group

- Google’s Third Supplemental Response to Sonos’s Interrogatory No. 13
- Testimony from Google’s corporate designees
  - Kenneth MacKay
  - Justin Pedro
- Google Documents
  - “Create and manage speaker groups” [GOOG-SONOSWDTX-00007068-74]
  - “Group your Google Assistance device” [SONOS-SVG2-00055660-61]
  - “Multizone – cast_shell integration” [GOOG-SONOSWDTX-00048962-66]
  - “Cast for Audio” Initial UX Spec [GOOG-SONOSNDCA-00056732-77]
  - “Multizone Audio Design” [GOOG-SONOSWDTX-00040384-96]
- Google’s Source Code

Invoking the First Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen


11:18
Home
Search
Your Library

August And Everything After

Counting Crows

Album • 1993

Round Here
Counting Crows

Omaha
Counting Crows

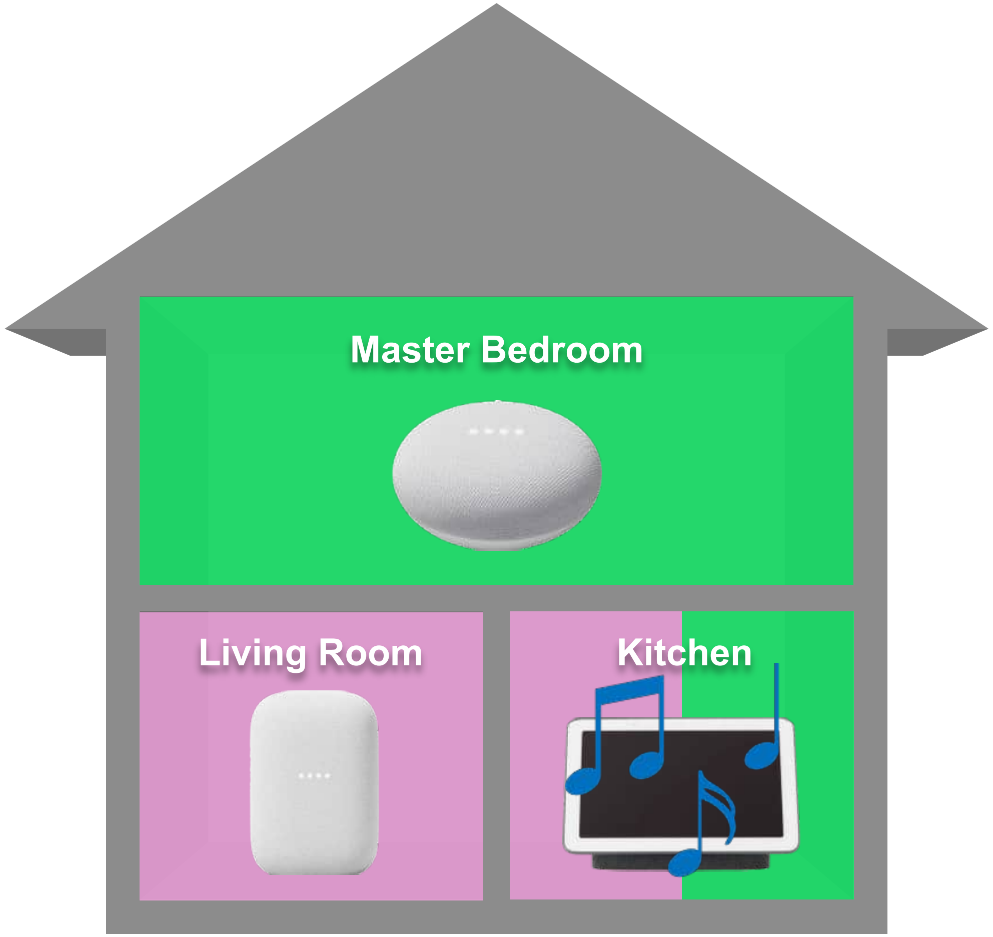
Mr. Jones
Counting Crows

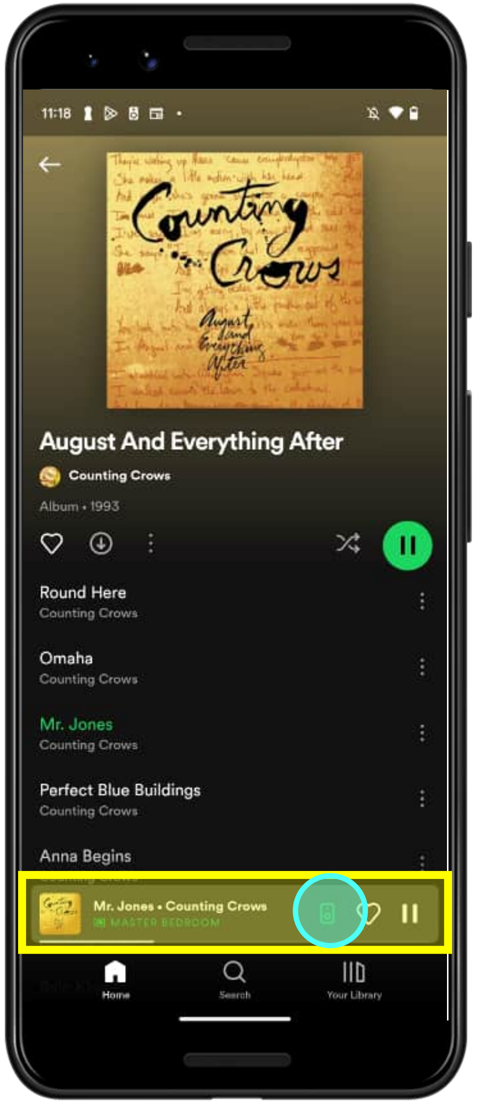
Perfect Blue Buildings
Counting Crows

Anna Begins

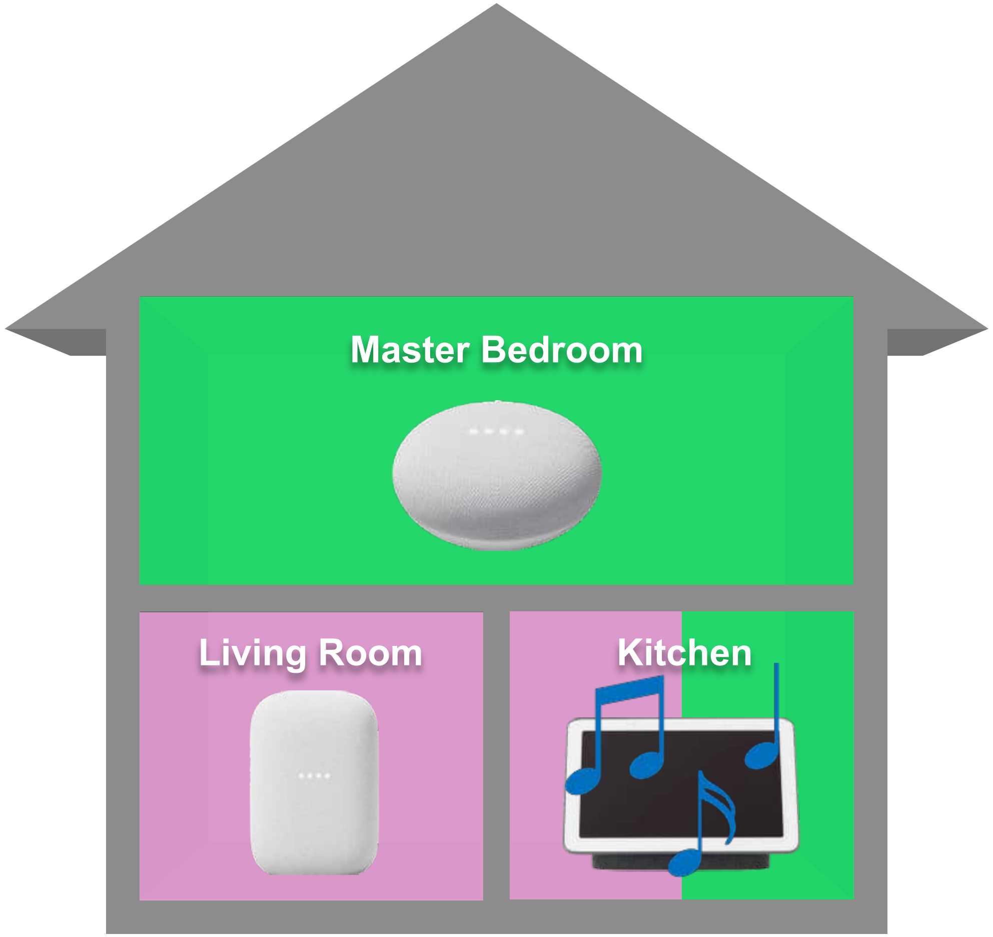
Mr. Jones • Counting Crows
MASTER BEDROOM

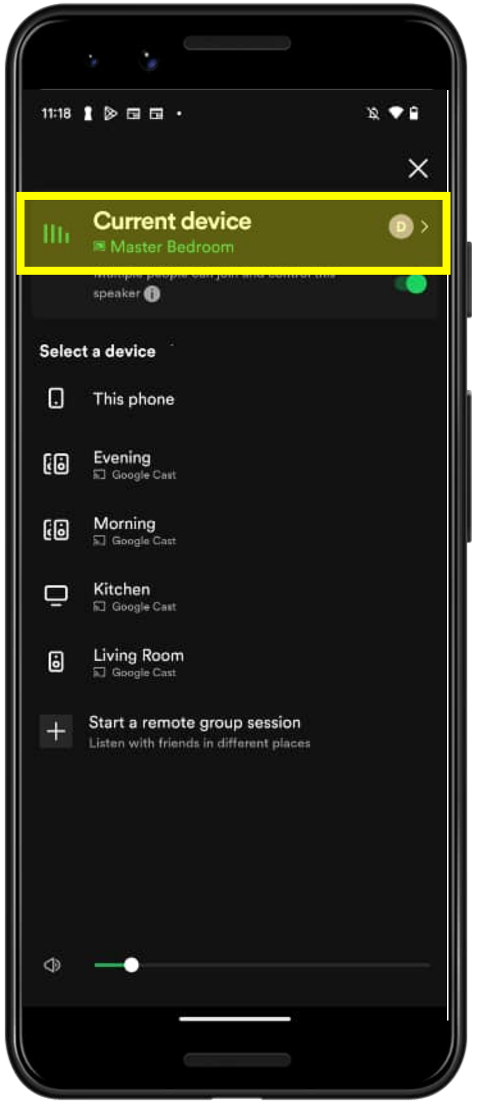
Invoking the First Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen


11:18
August And Everything After
Counting Crows
Album • 1993
Round Here
Counting Crows
Omaha
Counting Crows
Mr. Jones
Counting Crows
Perfect Blue Buildings
Counting Crows
Anna Begins
Mr. Jones • Counting Crows
MASTER BEDROOM
Home
Search
Your Library

Invoking the First Speaker Group via Spotify App




11:18

Current device

Master Bedroom

speaker

Select a device

This phone

Evening
Google Cast

Morning
Google Cast

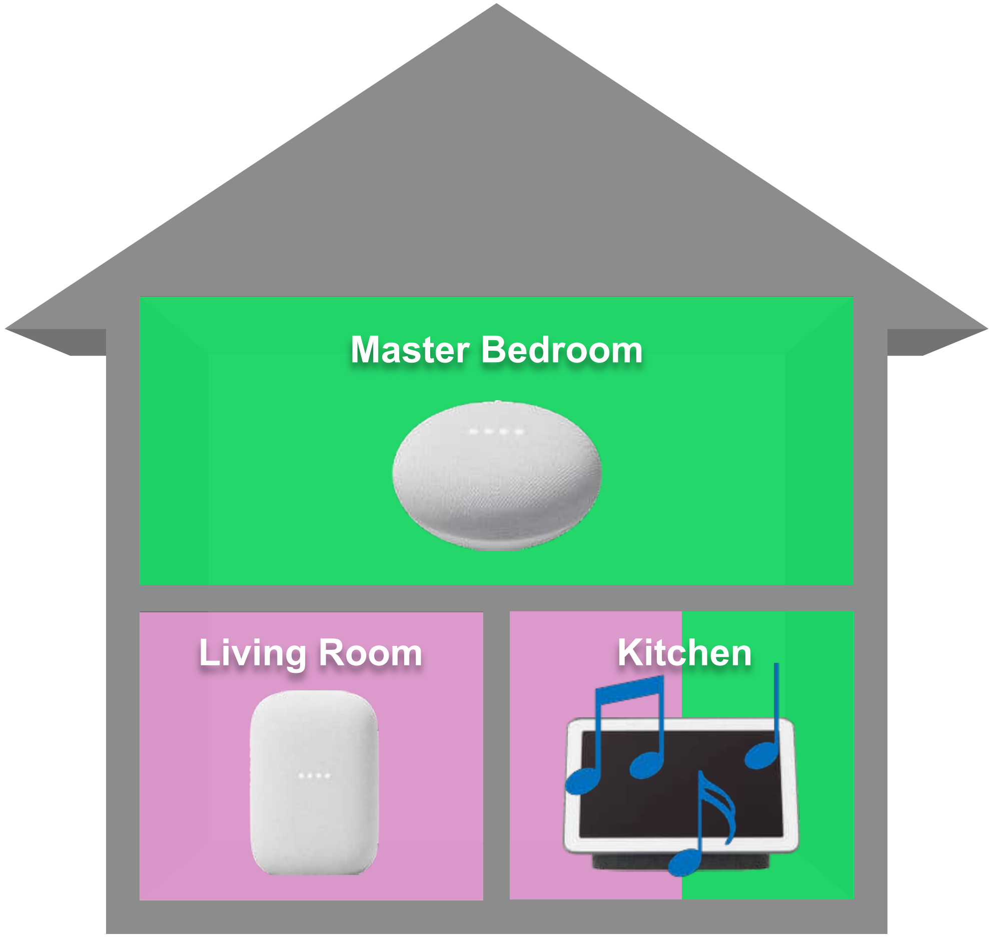
Kitchen
Google Cast

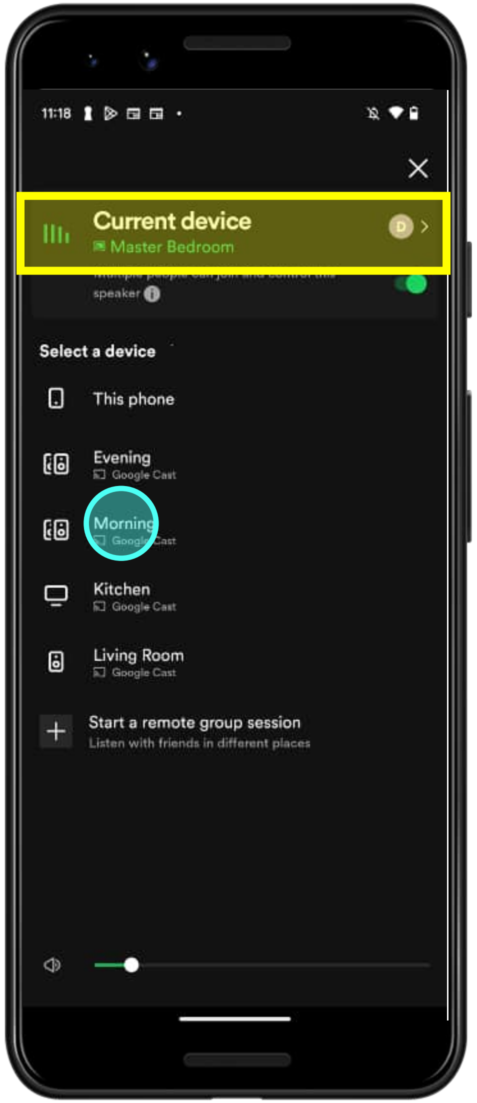
Living Room
Google Cast

Start a remote group session
Listen with friends in different places

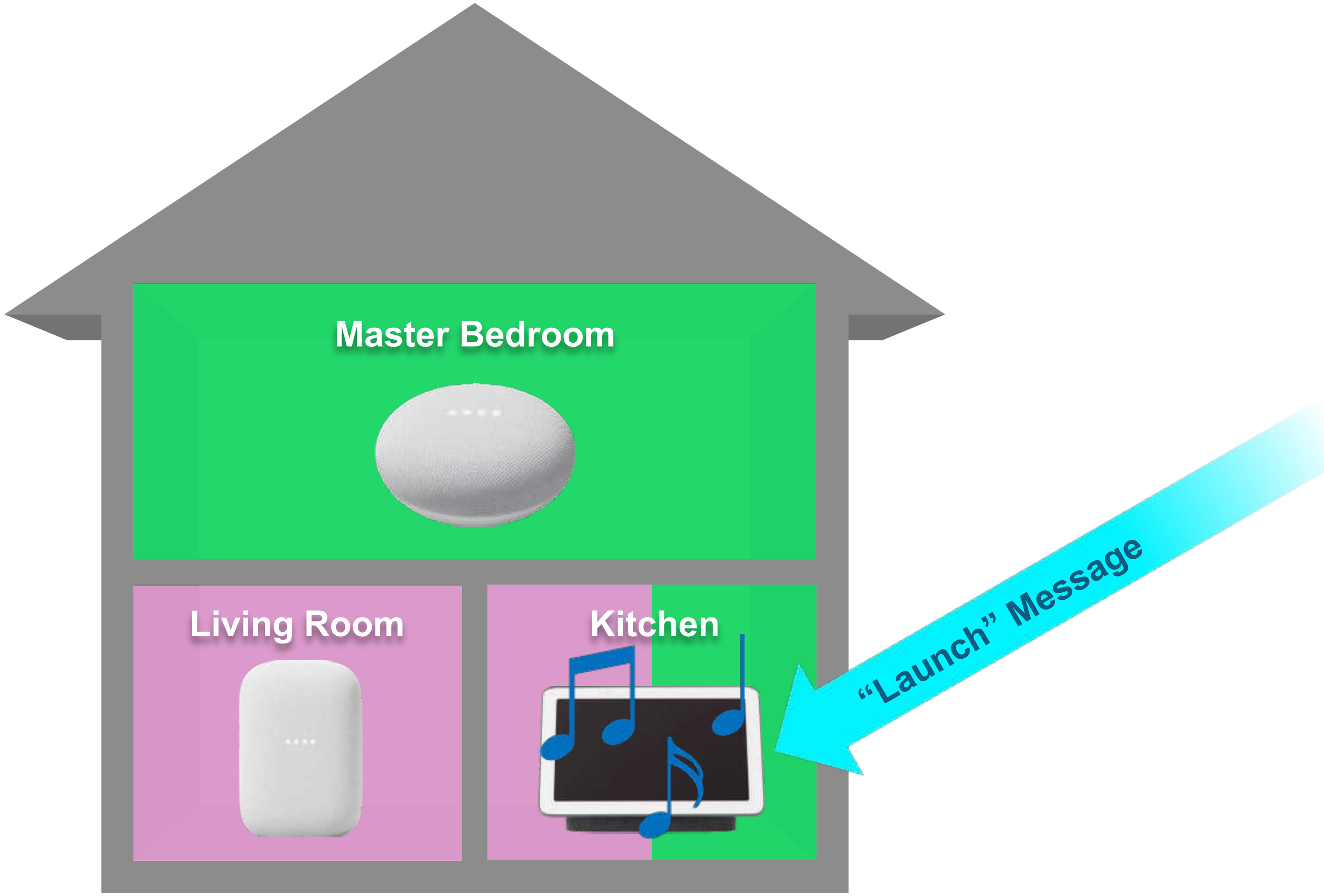
EXHIBIT A - FILED UNDER SEAL

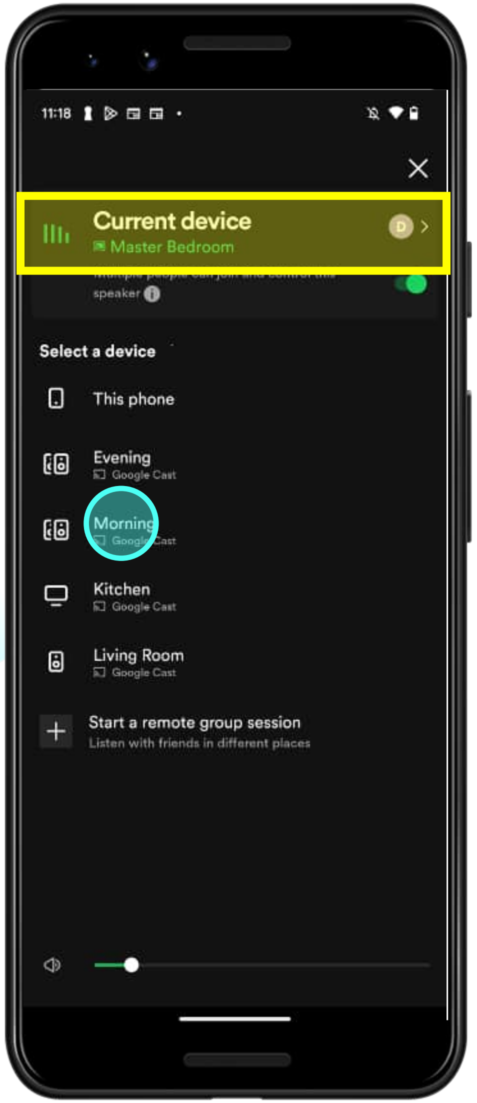
Invoking the First Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen


11:18
Current device
Master Bedroom
D
speaker
Select a device
This phone
Evening
Google Cast
Morning
Google Cast
Kitchen
Google Cast
Living Room
Google Cast
Start a remote group session
Listen with friends in different places

Invoking the First Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen
“Launch” Message


11:18

Current device
Master Bedroom

speaker

Select a device

This phone

Evening
Google Cast

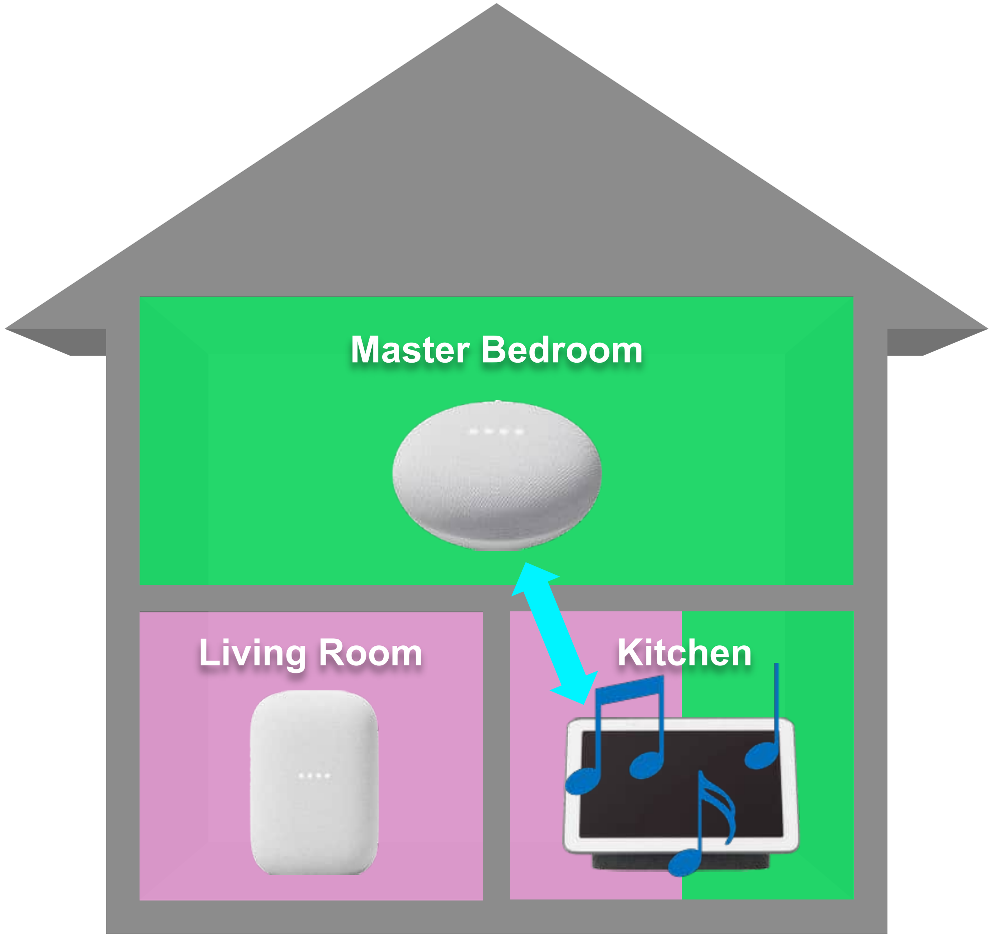
Morning
Google Cast

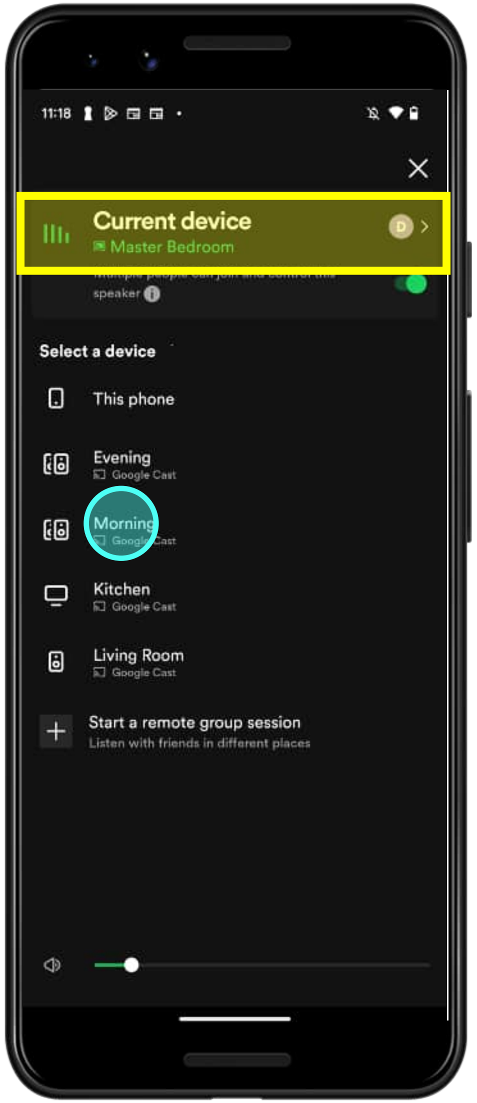
Kitchen
Google Cast

Living Room
Google Cast

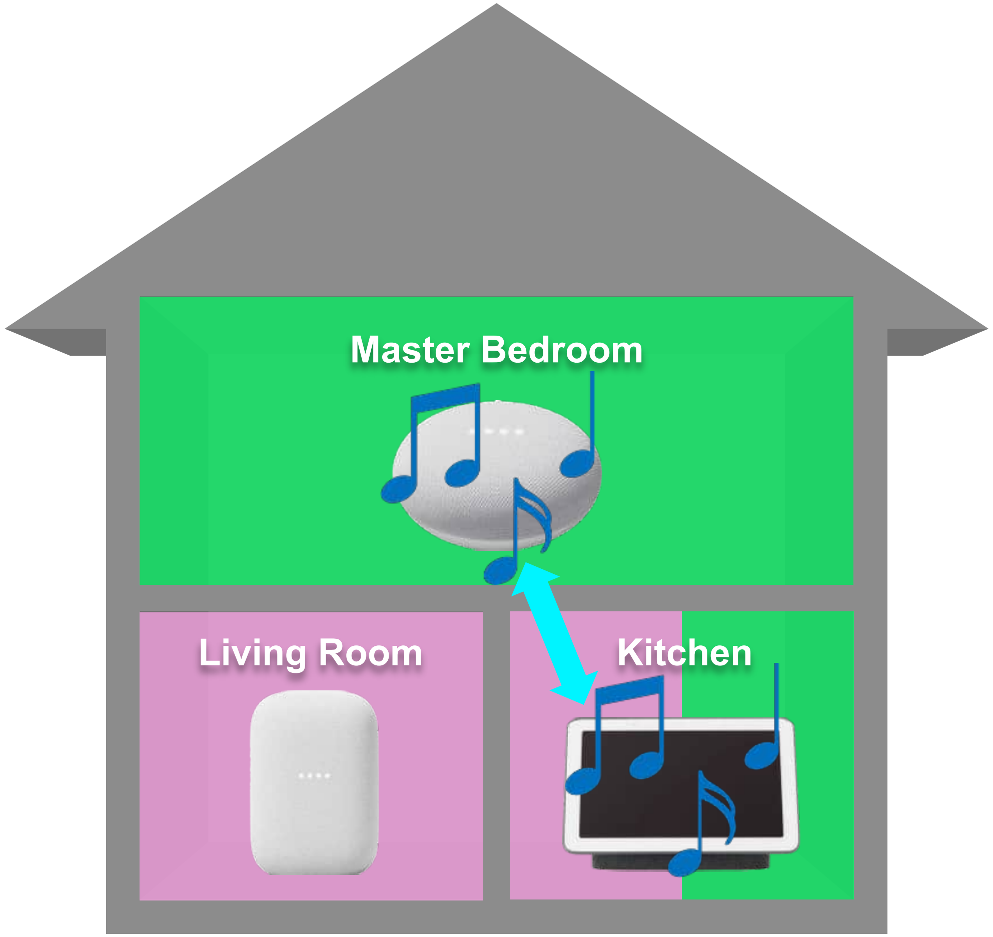
Start a remote group session
Listen with friends in different places

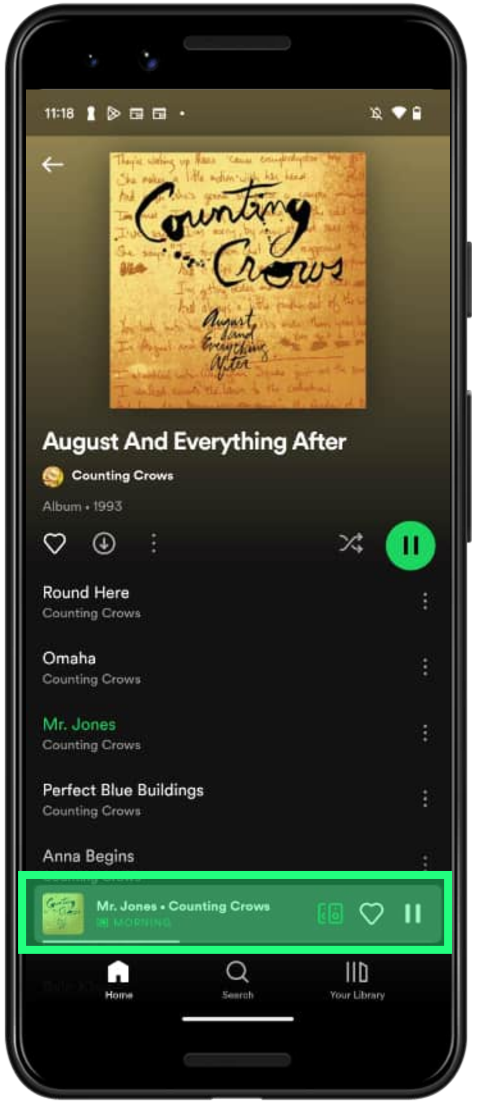
Invoking the First Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen


11:18
Current device
Master Bedroom
D
speaker
Select a device
This phone
Evening
Google Cast
Morning
Google Cast
Kitchen
Google Cast
Living Room
Google Cast
Start a remote group session
Listen with friends in different places

Invoking the First Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen


11:18
Home
Search
Your Library

August And Everything After
Counting Crows
Album • 1993

Round Here
Counting Crows

Omaha
Counting Crows

Mr. Jones
Counting Crows

Perfect Blue Buildings
Counting Crows

Anna Begins

Mr. Jones • Counting Crows
MORNING

EXHIBIT A - FILED UNDER SEAL

Invoking the Second Speaker Group

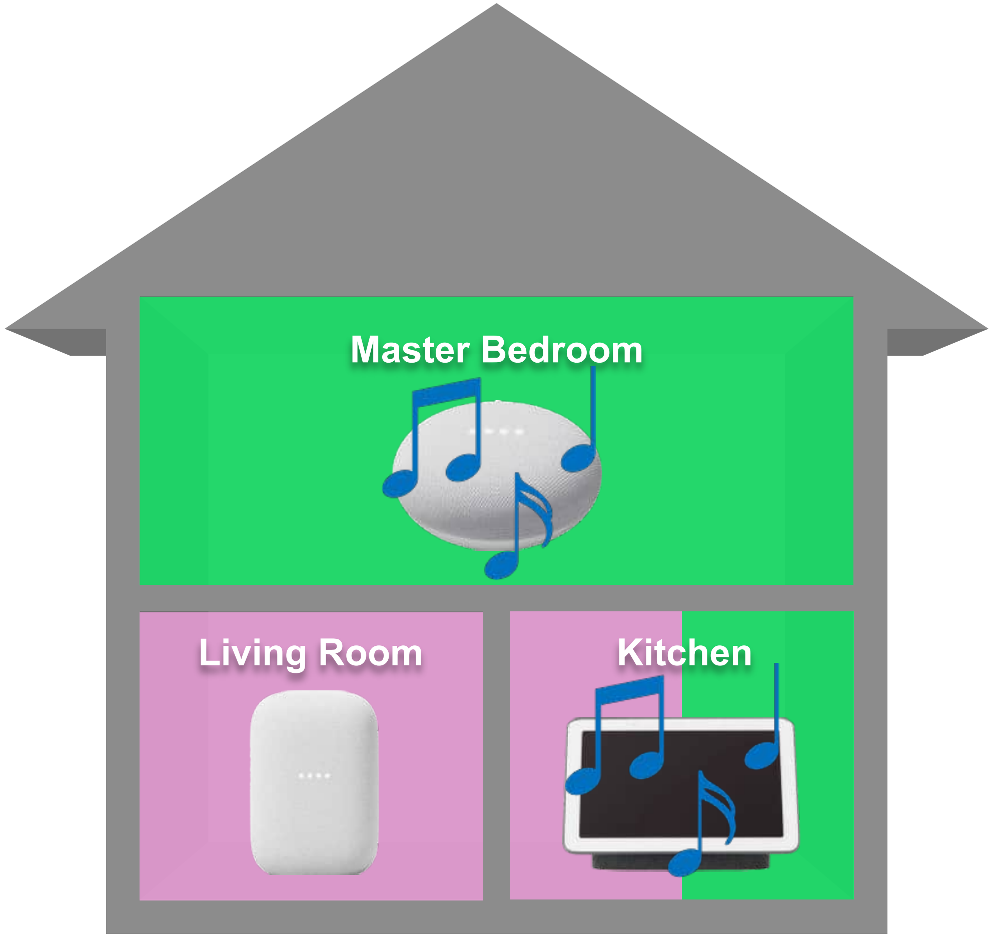
Spotify App (Active Playback on Morning Group)

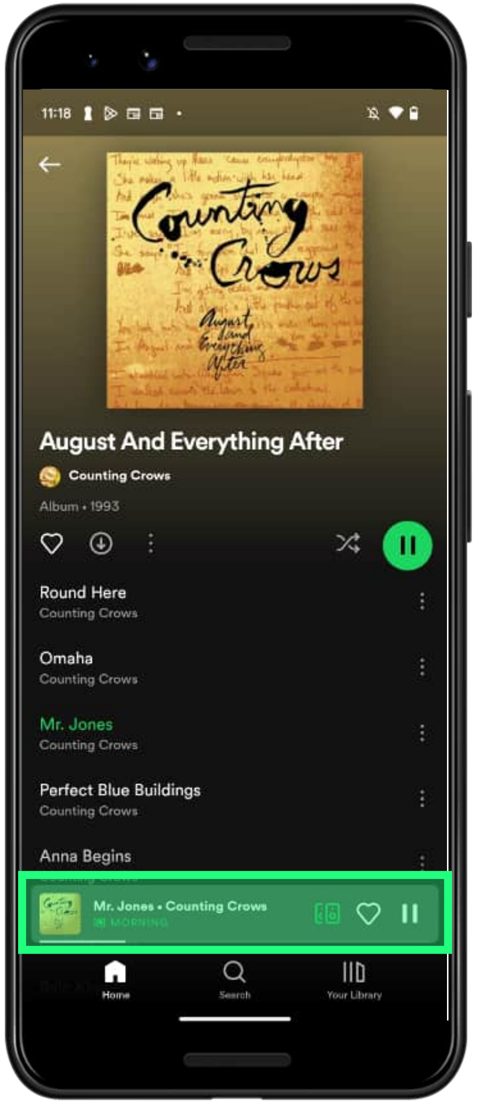
Invoking the Second Speaker Group

- Google’s Third Supplemental Response to Sonos’s Interrogatory No. 13
- Testimony from Google’s corporate designees
  - Kenneth MacKay
  - Justin Pedro
- Google Documents
  - “Create and manage speaker groups” [GOOG-SONOSWDTX-00007068-74]
  - “Group your Google Assistance device” [SONOS-SVG2-00055660-61]
  - “Multizone – cast_shell integration” [GOOG-SONOSWDTX-00048962-66]
  - “Cast for Audio” Initial UX Spec [GOOG-SONOSNDCA-00056732-77]
  - “Multizone Audio Design” [GOOG-SONOSWDTX-00040384-96]
- Google’s Source Code

Invoking the Second Speaker Group via Spotify App

EXHIBIT A - FILED UNDER SEAL


Master Bedroom
Living Room
Kitchen


11:18
Home
Search
Your Library

August And Everything After

Counting Crows

Album • 1993

Round Here
Counting Crows

Omaha
Counting Crows

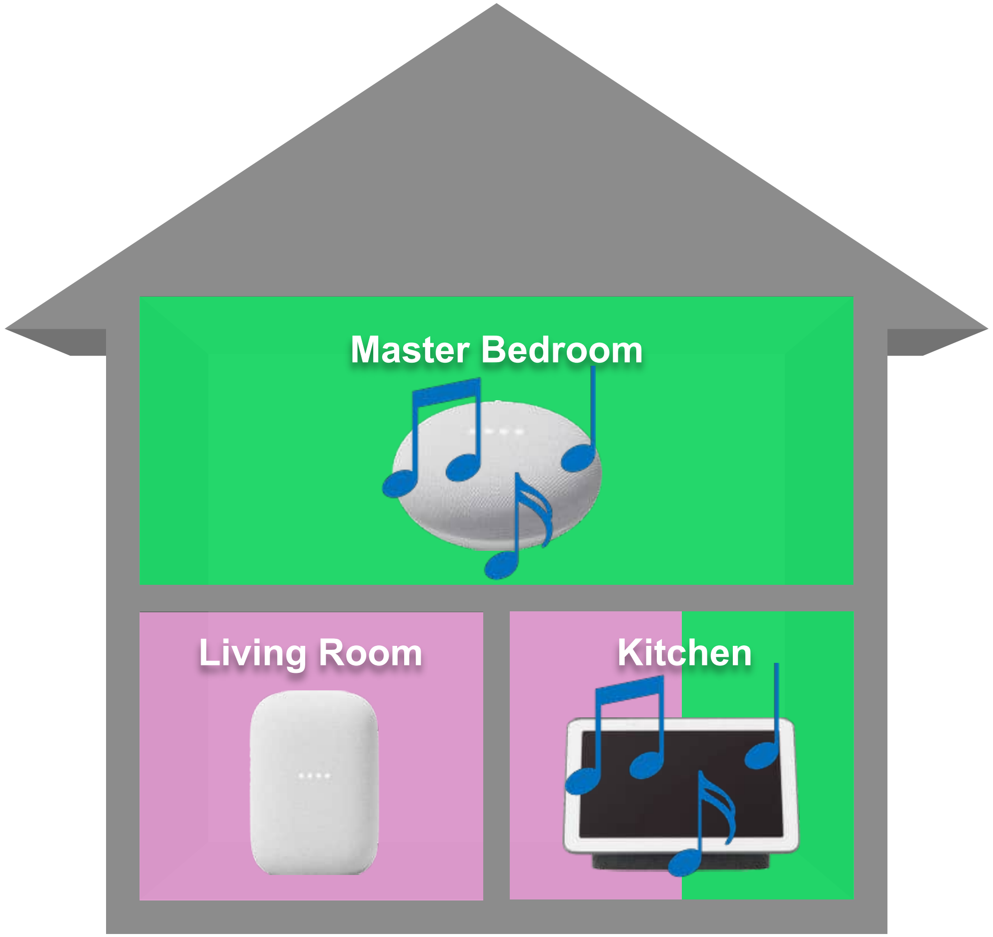
Mr. Jones
Counting Crows

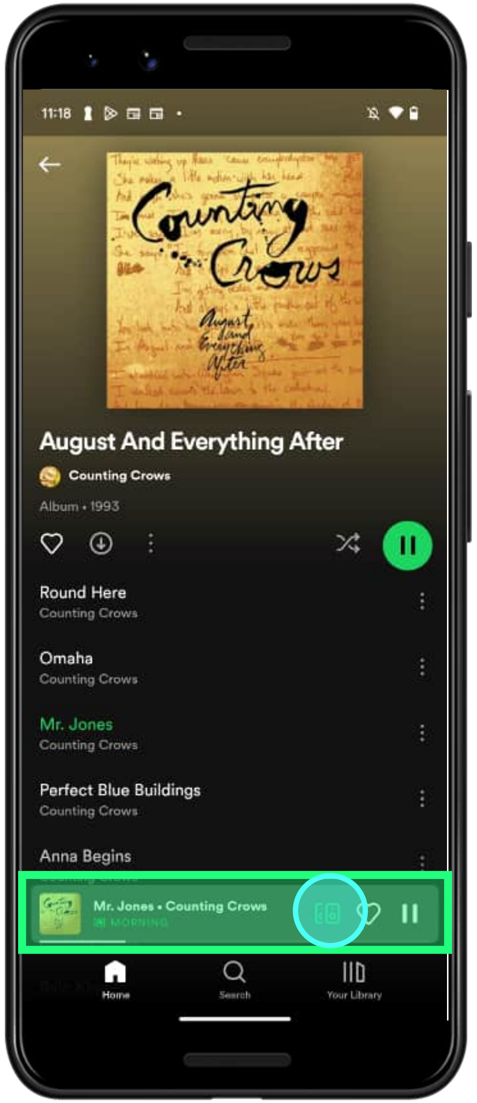
Perfect Blue Buildings
Counting Crows

Anna Begins

Mr. Jones • Counting Crows
MORNING

Invoking the Second Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen


11:18

August And Everything After

Counting Crows

Album • 1993

Round Here
Counting Crows

Omaha
Counting Crows

Mr. Jones
Counting Crows

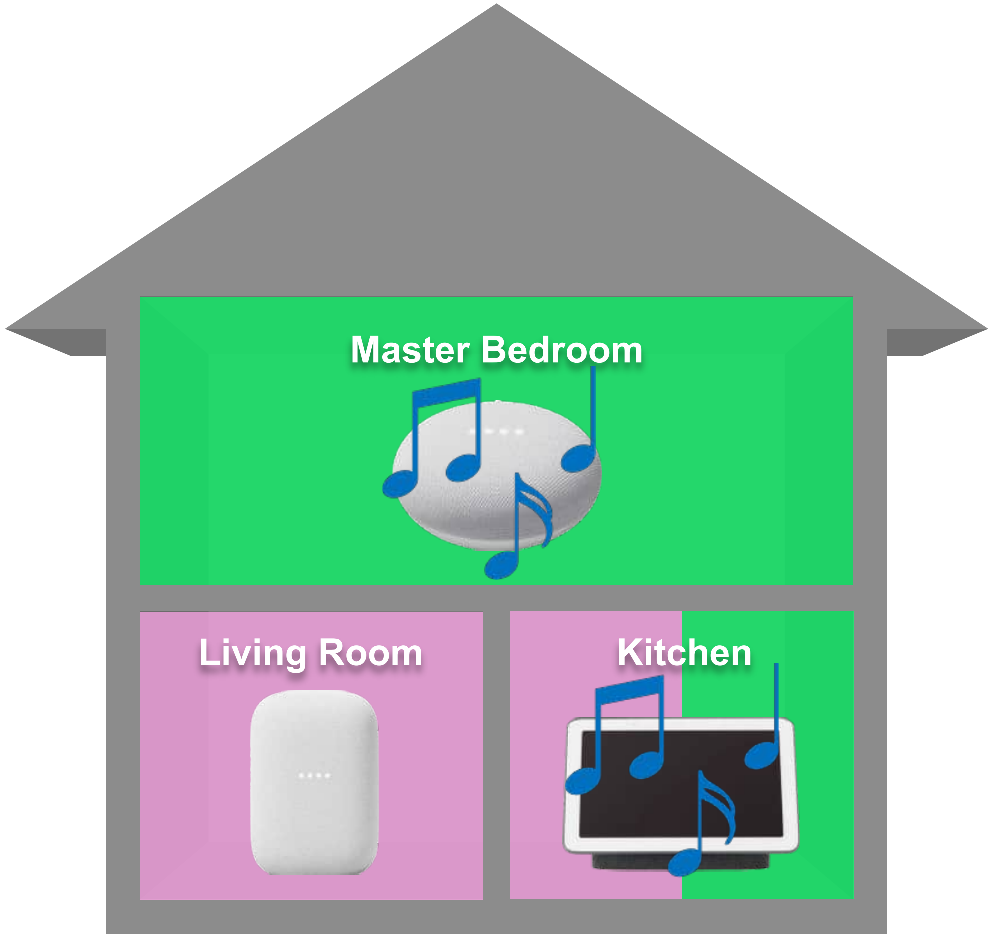
Perfect Blue Buildings
Counting Crows

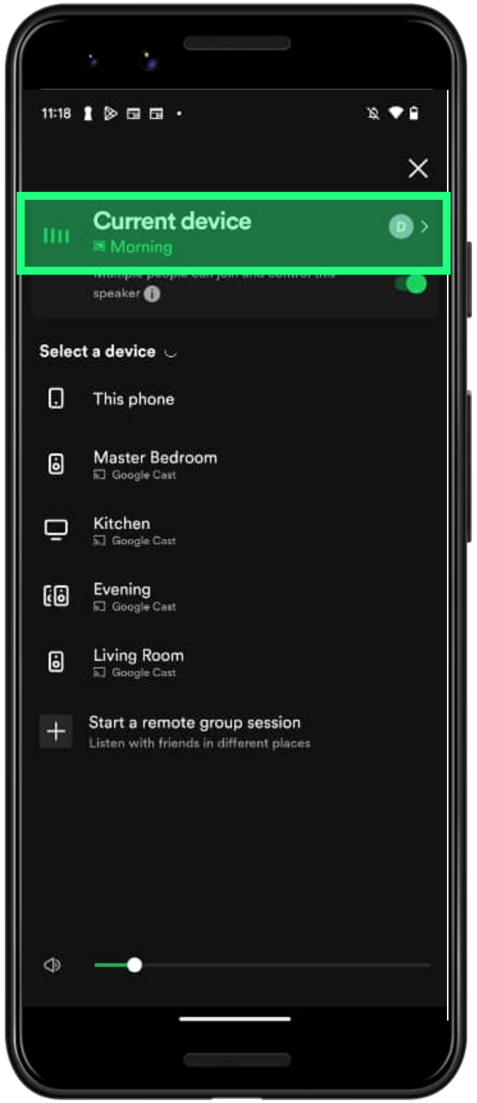
Anna Begins

Mr. Jones • Counting Crows
MORNING

Home
Search
Your Library

Invoking the Second Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen


11:18
Current device
Morning
D

speaker

Select a device

This phone

Master Bedroom
Google Cast

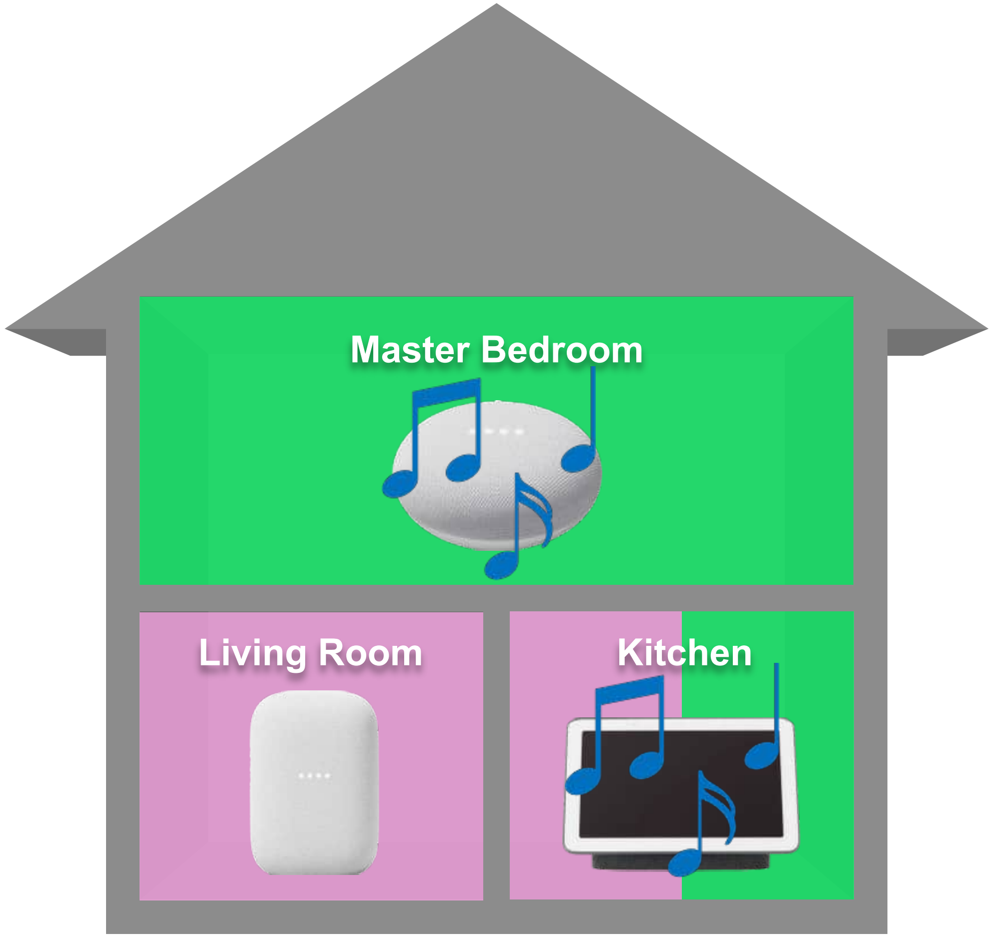
Kitchen
Google Cast

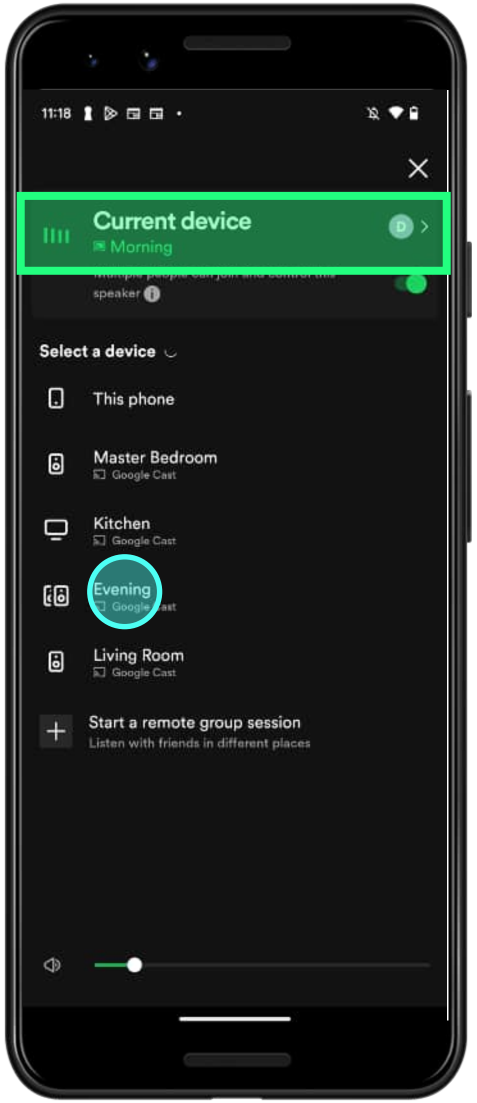
Evening
Google Cast

Living Room
Google Cast

Start a remote group session
Listen with friends in different places

Invoking the Second Speaker Group via Spotify App




11:18

Current device
Morning

speaker

Select a device

This phone

Master Bedroom
Google Cast

Kitchen
Google Cast

Evening
Google Cast

Living Room
Google Cast

Start a remote group session
Listen with friends in different places

Invoking the Second Speaker Group via Spotify App

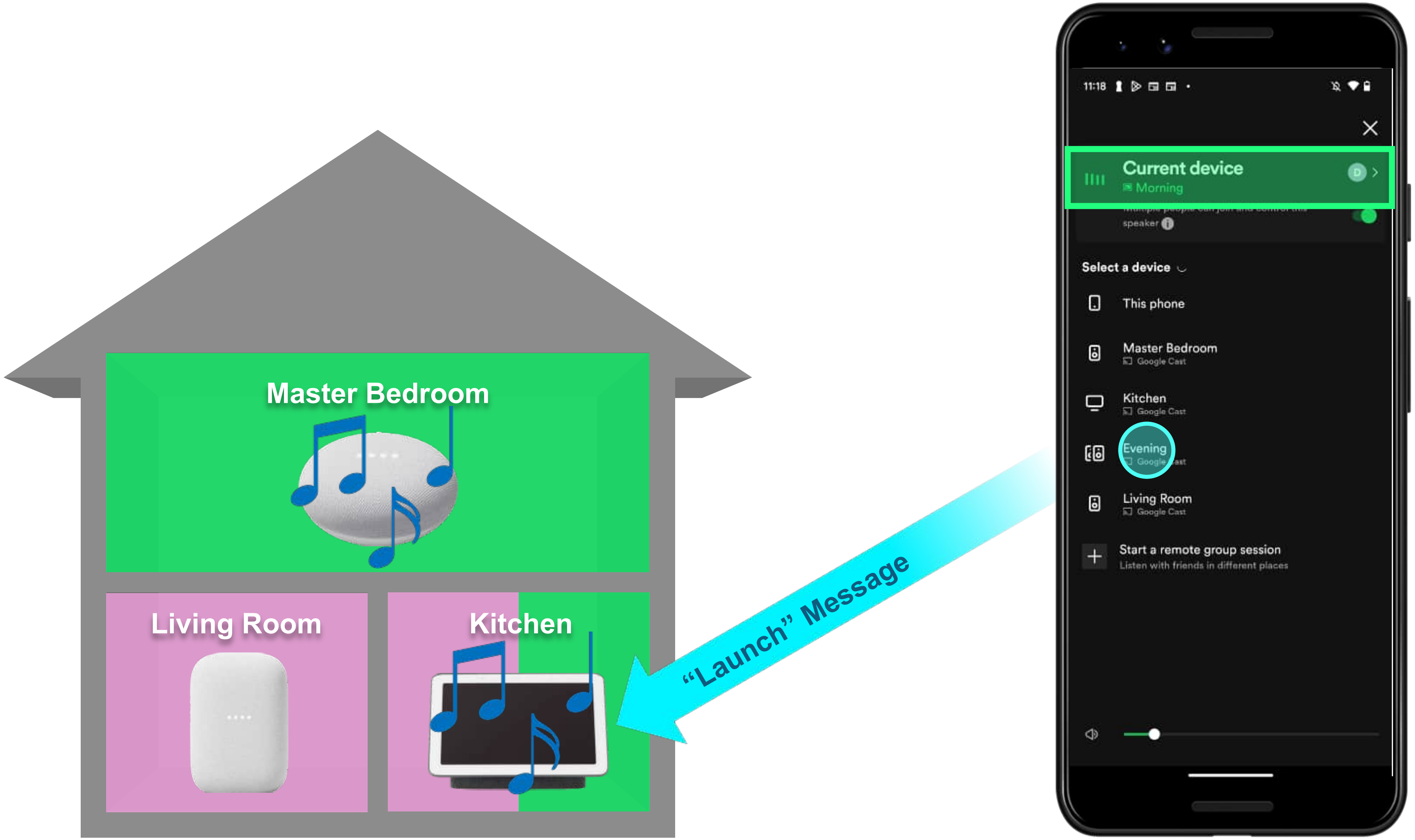
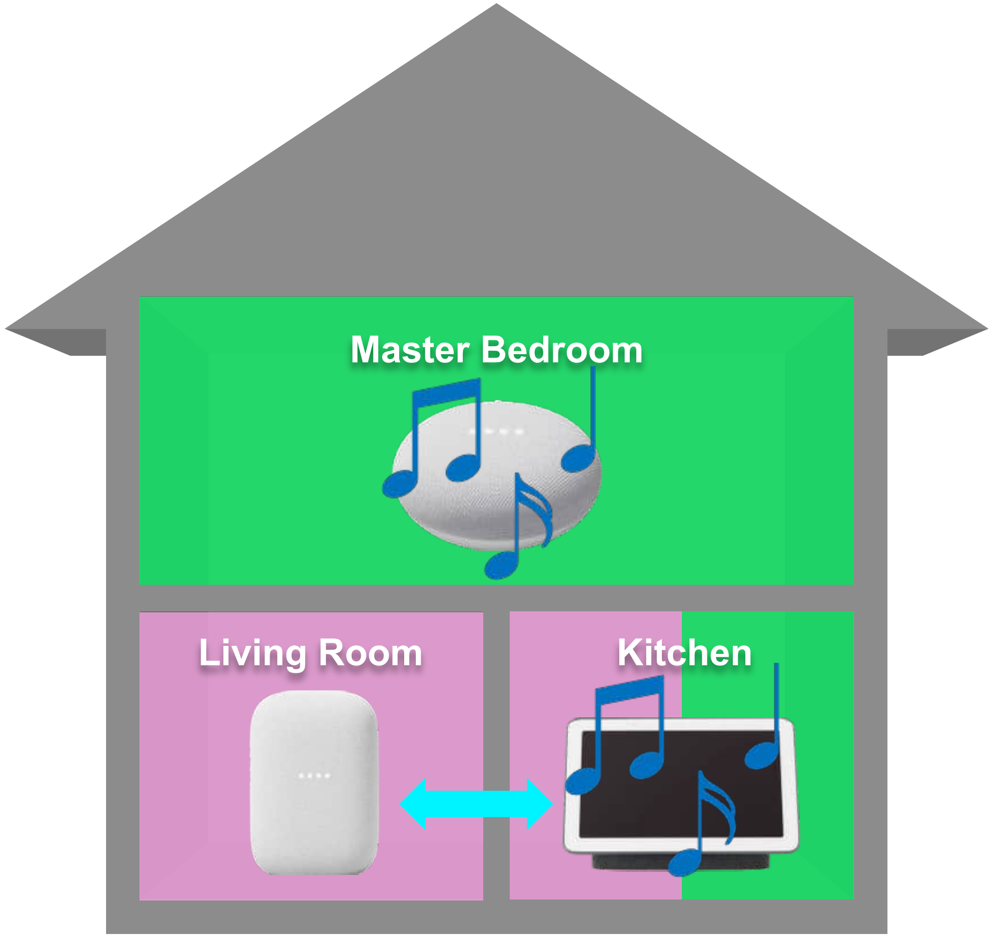
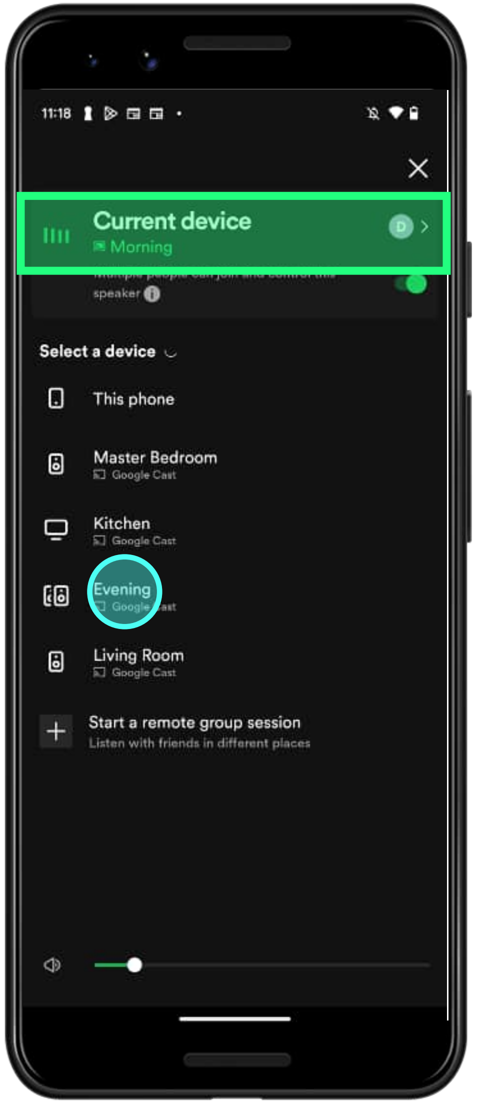

Master Bedroom
Living Room
Kitchen
"Launch" Message
11:18
Current device
Morning
speaker
Select a device
This phone
Master Bedroom
Google Cast
Kitchen
Google Cast
Evening
Google Cast
Living Room
Google Cast
Start a remote group session
Listen with friends in different places

EXHIBIT A - FILED UNDER SEAL

Invoking the Second Speaker Group via Spotify App




11:18

Current device
Morning

multiple people can join and control this speaker

Select a device

This phone

Master Bedroom
Google Cast

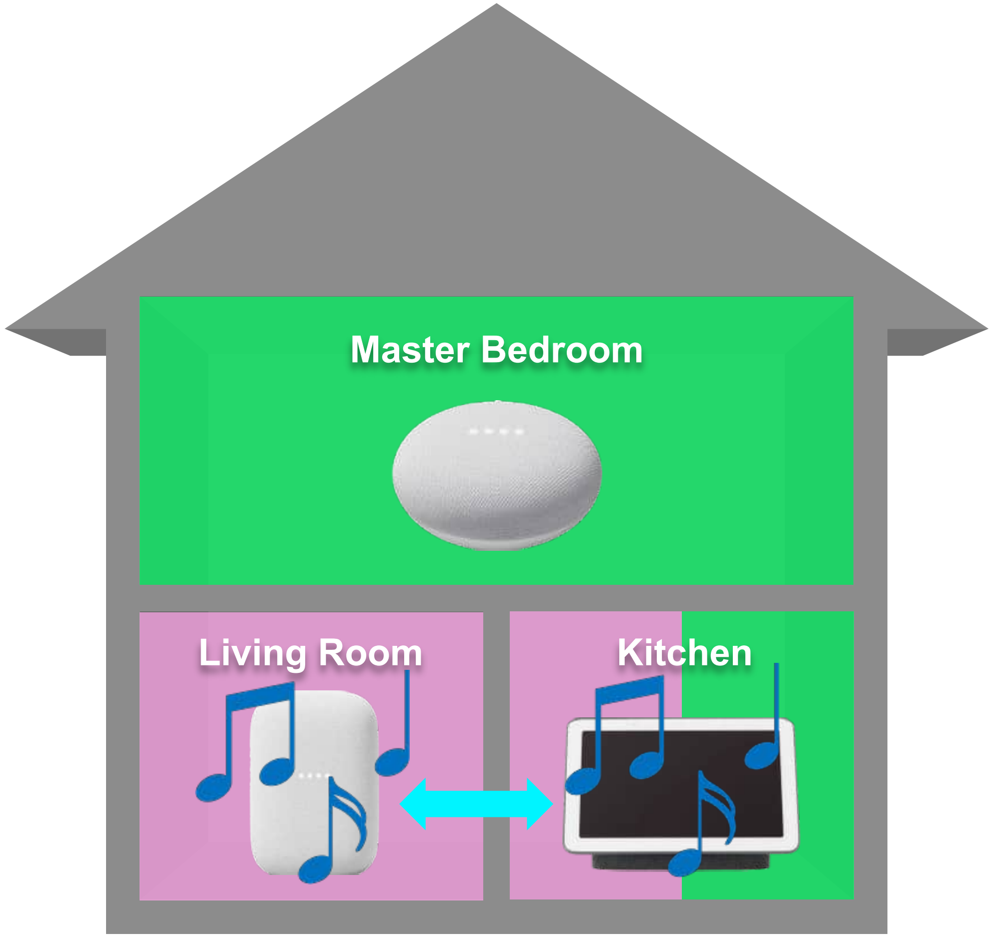
Kitchen
Google Cast

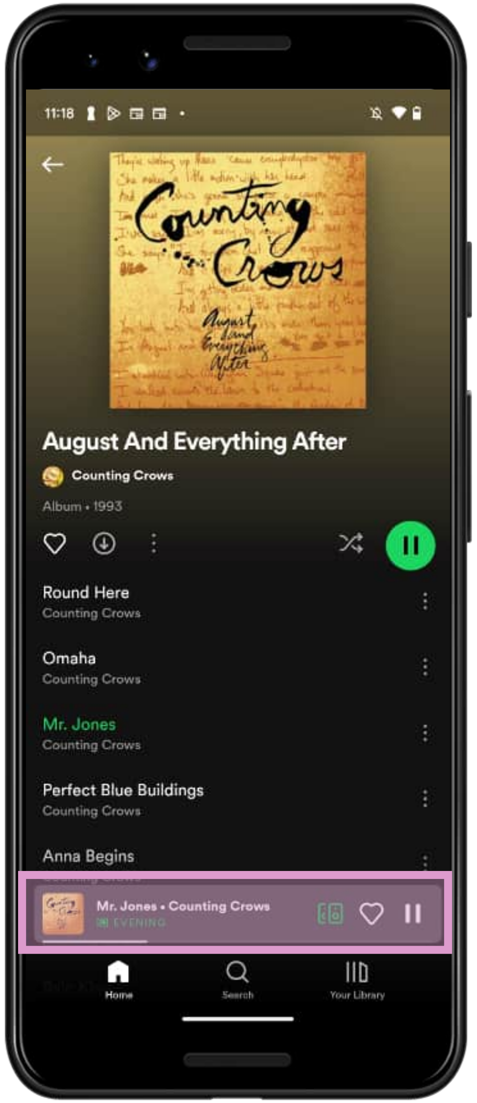
Evening
Google Cast

Living Room
Google Cast

Start a remote group session
Listen with friends in different places

Invoking the Second Speaker Group via Spotify App


Master Bedroom
Living Room
Kitchen


11:18

August And Everything After

Counting Crows

Album • 1993

Round Here
Counting Crows

Omaha
Counting Crows

Mr. Jones
Counting Crows

Perfect Blue Buildings
Counting Crows

Anna Begins

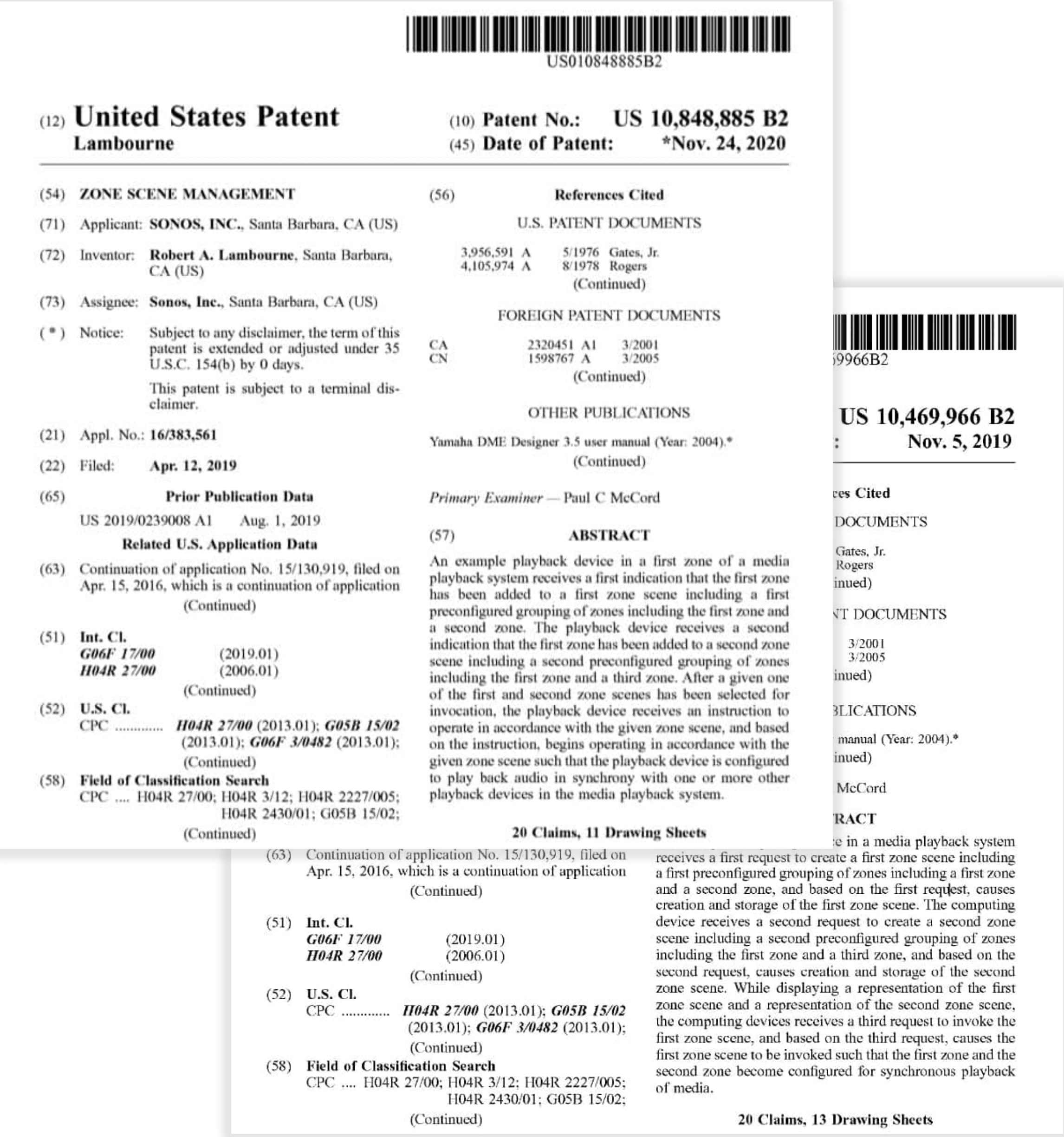
Mr. Jones • Counting Crows
EVENING

Home
Search
Your Library

EXHIBIT A - FILED UNDER SEAL

Importance of the ’885 and ’966 Patents

Assignment – Importance of '885 Patent



US010848885B2

(12) **United States Patent**
Lambourne

(10) **Patent No.: US 10,848,885 B2**
(45) **Date of Patent: *Nov. 24, 2020**

(54) **ZONE SCENE MANAGEMENT**

(71) Applicant: **SONOS, INC.**, Santa Barbara, CA (US)

(72) Inventor: **Robert A. Lambourne**, Santa Barbara, CA (US)

(73) Assignee: **Sonos, Inc.**, Santa Barbara, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **16/383,561**

(22) Filed: **Apr. 12, 2019**

(65) **Prior Publication Data**

US 2019/0239008 A1 Aug. 1, 2019

Related U.S. Application Data

(63) Continuation of application No. 15/130,919, filed on Apr. 15, 2016, which is a continuation of application

(Continued)

(51) **Int. Cl.**
G06F 17/00 (2019.01)
H04R 27/00 (2006.01)

(Continued)

(52) **U.S. Cl.**
CPC ***H04R 27/00*** (2013.01); ***G05B 15/02*** (2013.01); ***G06F 3/0482*** (2013.01);

(Continued)

(58) **Field of Classification Search**
CPC H04R 27/00; H04R 3/12; H04R 2227/005; H04R 2430/01; G05B 15/02;

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,956,591 A 5/1976 Gates, Jr.
4,105,974 A 8/1978 Rogers

(Continued)

FOREIGN PATENT DOCUMENTS

CA 2320451 A1 3/2001
CN 1598767 A 3/2005

(Continued)

OTHER PUBLICATIONS

Yamaha DME Designer 3.5 user manual (Year: 2004).*

(Continued)

Primary Examiner — Paul C McCord

(57) **ABSTRACT**

An example playback device in a first zone of a media playback system receives a first indication that the first zone has been added to a first zone scene including a first preconfigured grouping of zones including the first zone and a second zone. The playback device receives a second indication that the first zone has been added to a second zone scene including a second preconfigured grouping of zones including the first zone and a third zone. After a given one of the first and second zone scenes has been selected for invocation, the playback device receives an instruction to operate in accordance with the given zone scene, and based on the instruction, begins operating in accordance with the given zone scene such that the playback device is configured to play back audio in synchrony with one or more other playback devices in the media playback system.

20 Claims, 11 Drawing Sheets

59966B2

US 10,469,966 B2
: **Nov. 5, 2019**

ces Cited
DOCUMENTS
Gates, Jr.
Rogers
inued)
NT DOCUMENTS
3/2001
3/2005
inued)
BLICATIONS
manual (Year: 2004).*
inued)
McCord
RACT

(63) Continuation of application No. 15/130,919, filed on Apr. 15, 2016, which is a continuation of application

(Continued)

(51) **Int. Cl.**
G06F 17/00 (2019.01)
H04R 27/00 (2006.01)

(Continued)

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CPC ***H04R 27/00*** (2013.01); ***G05B 15/02*** (2013.01); ***G06F 3/0482*** (2013.01);

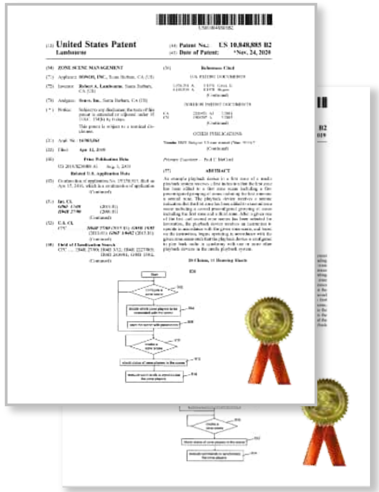
(Continued)

(58) **Field of Classification Search**
CPC H04R 27/00; H04R 3/12; H04R 2227/005; H04R 2430/01; G05B 15/02;

(Continued)

ce in a media playback system receives a first request to create a first zone scene including a first preconfigured grouping of zones including a first zone and a second zone, and based on the first request, causes creation and storage of the first zone scene. The computing device receives a second request to create a second zone scene including a second preconfigured grouping of zones including the first zone and a third zone, and based on the second request, causes creation and storage of the second zone scene. While displaying a representation of the first zone scene and a representation of the second zone scene, the computing devices receives a third request to invoke the first zone scene, and based on the third request, causes the first zone scene to be invoked such that the first zone and the second zone become configured for synchronous playback of media.

20 Claims, 13 Drawing Sheets



Sonos Patent Documents

- US 10,848,885
- US 10,469,966
- File Histories
- Claim Construction Material

Google Documents and Testimony

- Google Marketing Materials
- Google Promotional Materials
- Internal Documents / Emails
- Testimony of Kenneth MacKay, Google Senior Software Engineer
- Testimony of Tomer Shekel, a Google Product Manager

EXHIBIT A - FILED UNDER SEAL

Google’s “Non-Infringing Alternatives”

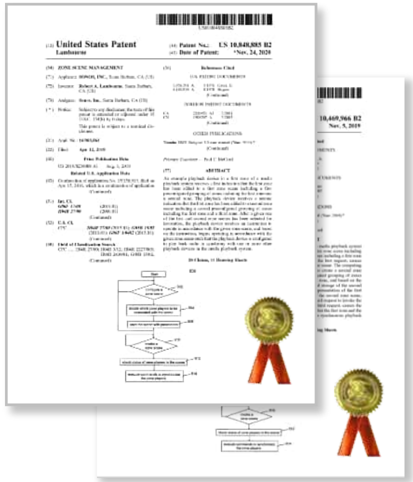
Assignment – Google's "Non-Infringing Alternatives"

Google's NIAs	Google's Description
NIA #1 "Google's products"	"Google's products do not infringe the asserted claims of the '885 and '966 patents. Accordingly, the accused Google products are themselves non-infringing alternatives to the asserted claims."
NIA #2 "no standalone mode"	"A non-infringing alternative is an implementation in which when the accused 'standalone' speaker is added to a target group, and it matches the music (or silence) of the target group."
NIA #3 "no overlapping groups"	"A non-infringing alternative is an implementation in which a speaker that is already a member of one group will be forced out of this (first) group when a user attempts to add the speaker to a new (second) group. In other words, with this non-infringing alternative, no speaker can be a member of more than one group at the same time."

Assignment – Google's "Non-Infringing Alternatives"

Google's NIAs	Non-Infringing	Acceptable	Available
#1 "Google's products"	?	?	?
#2 "no standalone mode"	?	?	?
#3 "no overlapping groups"	?	?	?

Assignment – Google's "Non-Infringing Alternatives"



Sonos Patent Documents

- US 10,848,885
- US 10,469,966
- File Histories
- Claim Construction Material

Google Documents

- Internal Documents / Emails
- Google Marketing Materials
- Google Promotional Materials

Sworn Testimony & Admissions

- Google's First Supplemental Response to Interrogatory No. 18
- Testimony of Dr. Dan Schonfeld, Google Expert
- Testimony of Tomer Shekel, a Google Product Manager

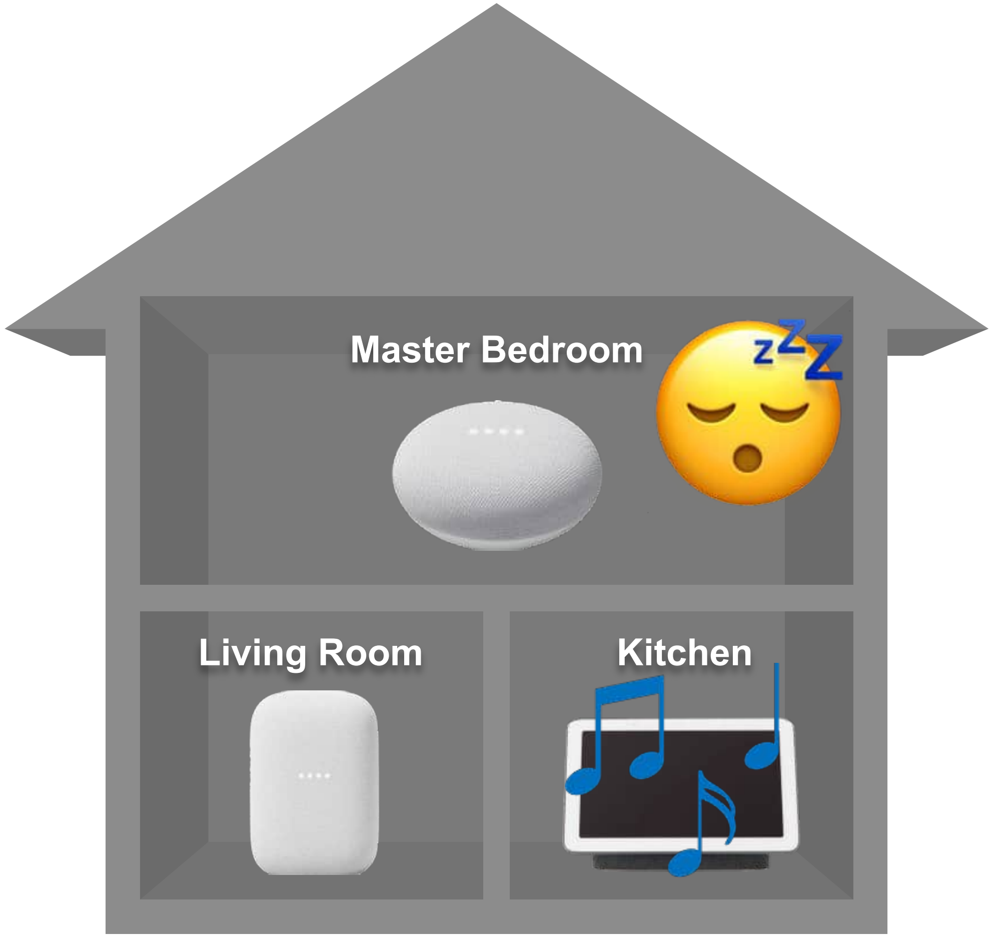
Conclusion – Google's "Non-Infringing Alternatives"

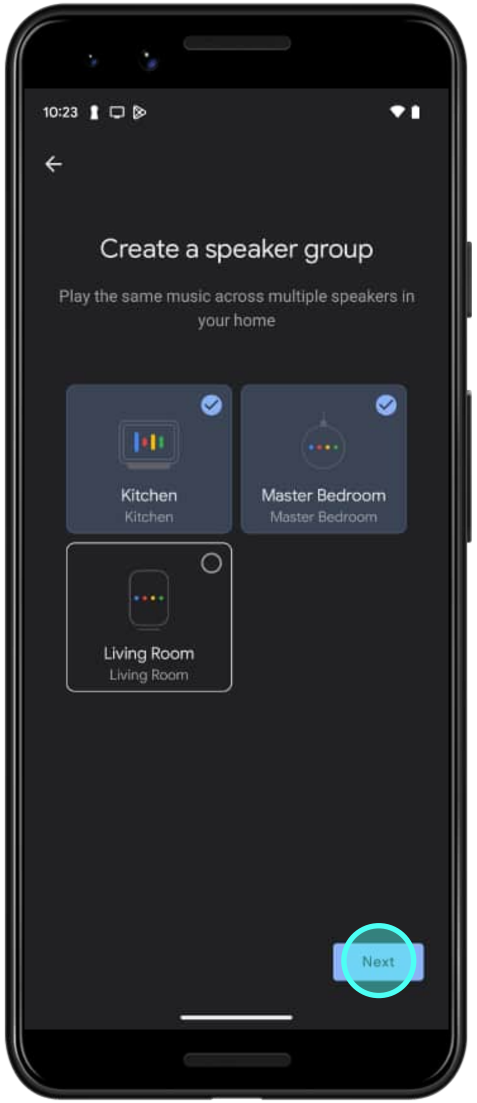
Google's NIAs	Non-Infringing	Acceptable	Available
#1 "Google's products"	✗	✗	✗
#2 "no standalone mode"	✗	✗	✗
#3 "no overlapping groups"		✗	✗

EXHIBIT A - FILED UNDER SEAL

NIA #2: “No Standalone Mode” is Not Commercially Acceptable

First Scenario – someone sleeping in master bedroom


Master Bedroom
Living Room
Kitchen


10:23

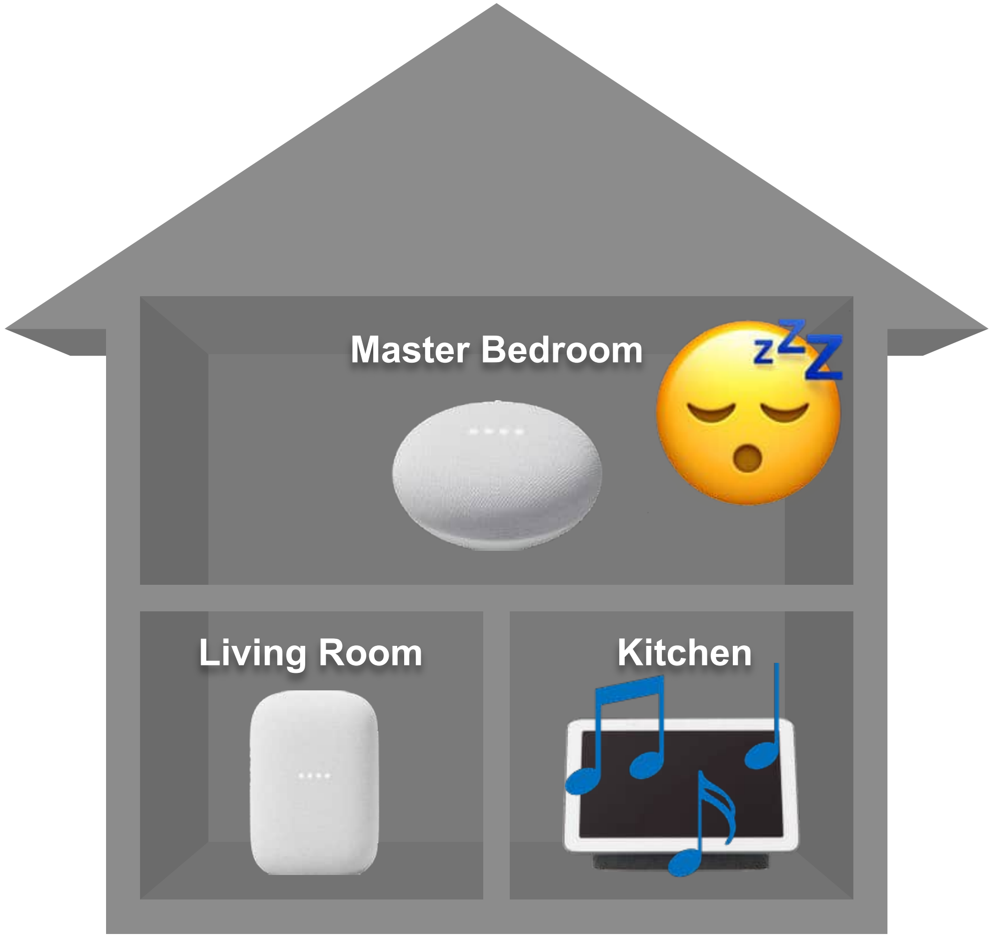
Create a speaker group

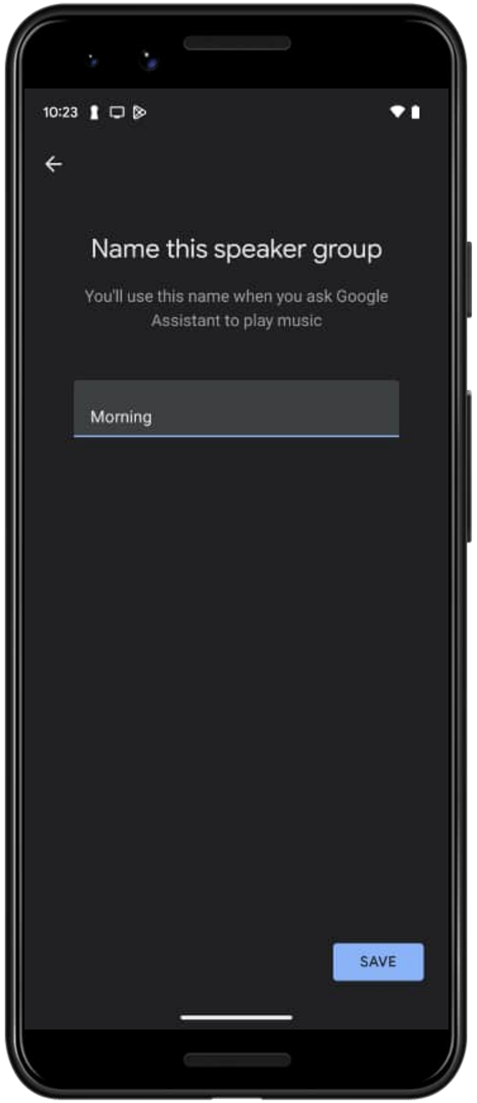
Play the same music across multiple speakers in your home

- ☑ Kitchen
Kitchen
- ☑ Master Bedroom
Master Bedroom
- ○ Living Room
Living Room

NIA #2: “No Standalone Mode” is Not Commercially Acceptable

First Scenario – someone sleeping in master bedroom


Master Bedroom
Living Room
Kitchen



Name this speaker group

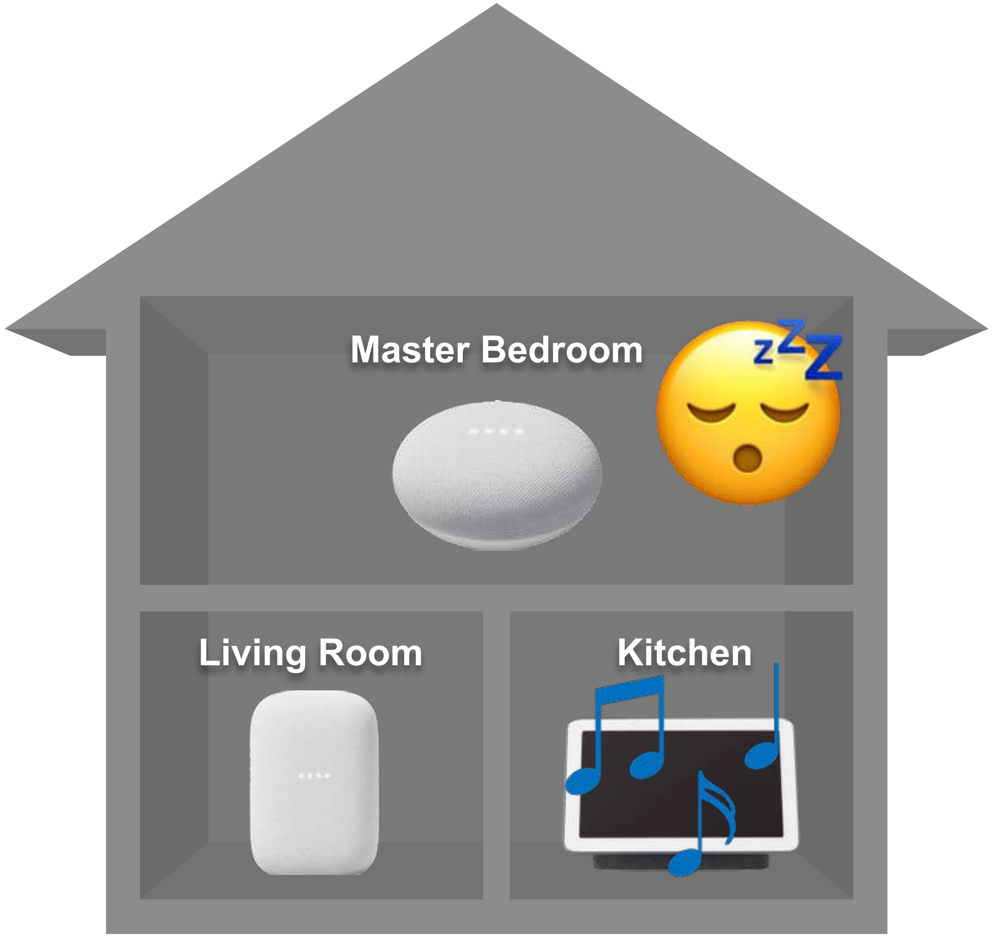
You'll use this name when you ask Google Assistant to play music

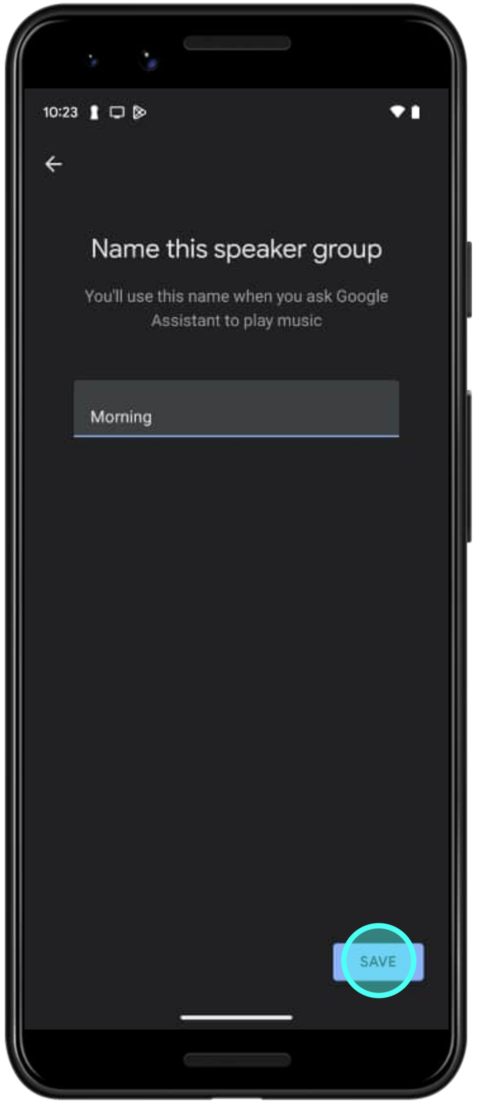
Morning

EXHIBIT A - FILED UNDER SEAL

NIA #2: “No Standalone Mode” Is Not Commercially Acceptable

First Scenario – someone sleeping in master bedroom


Master Bedroom
Living Room
Kitchen



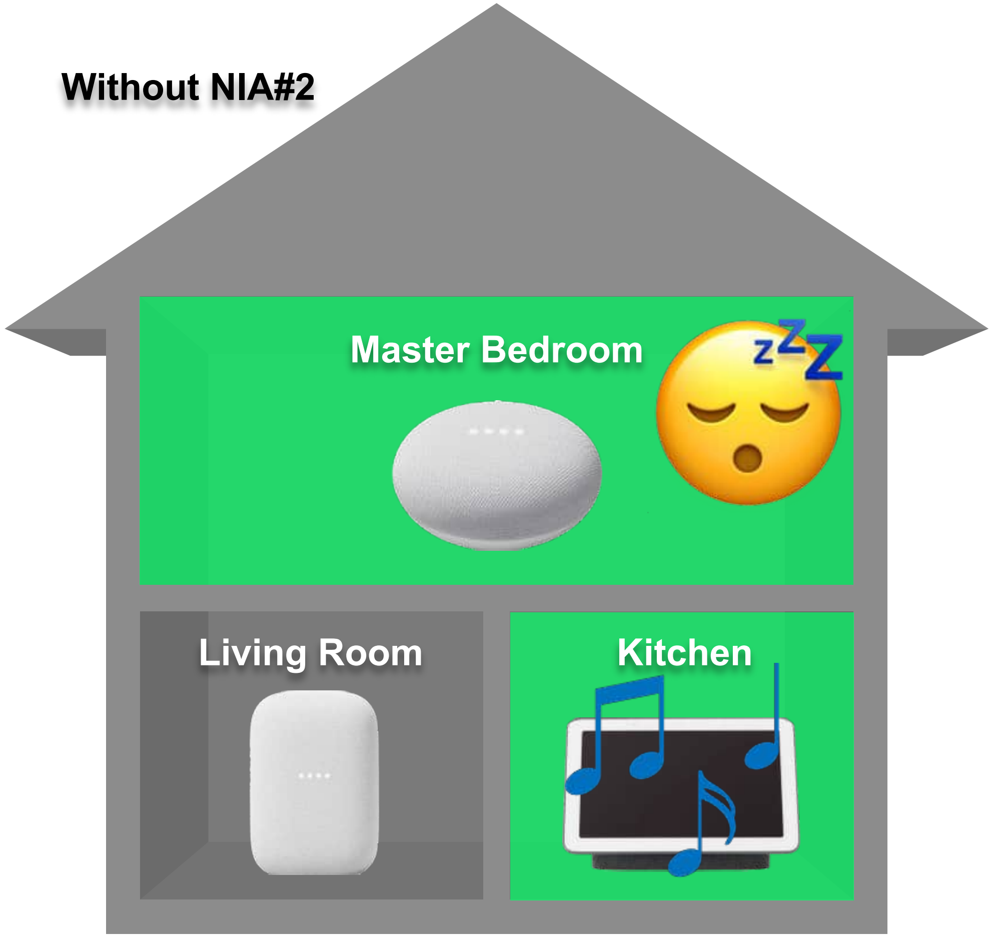
Name this speaker group

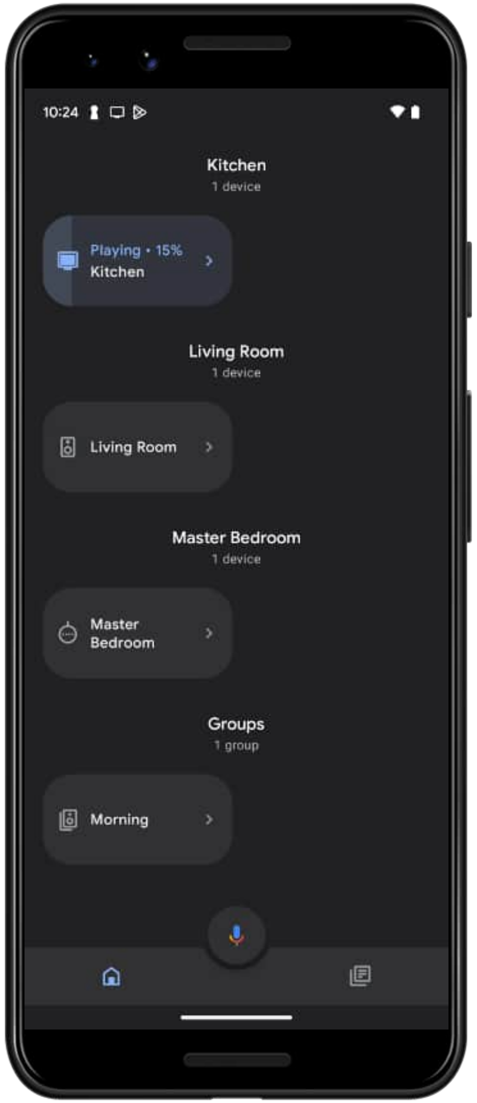
You'll use this name when you ask Google Assistant to play music

Morning

NIA #2: "No Standalone Mode" Is Not Commercially Acceptable

First Scenario – someone sleeping in master bedroom


Without NIA#2
Master Bedroom
Living Room
Kitchen



10:24

Kitchen
1 device

Playing • 15%
Kitchen

Living Room
1 device

Living Room

Master Bedroom
1 device

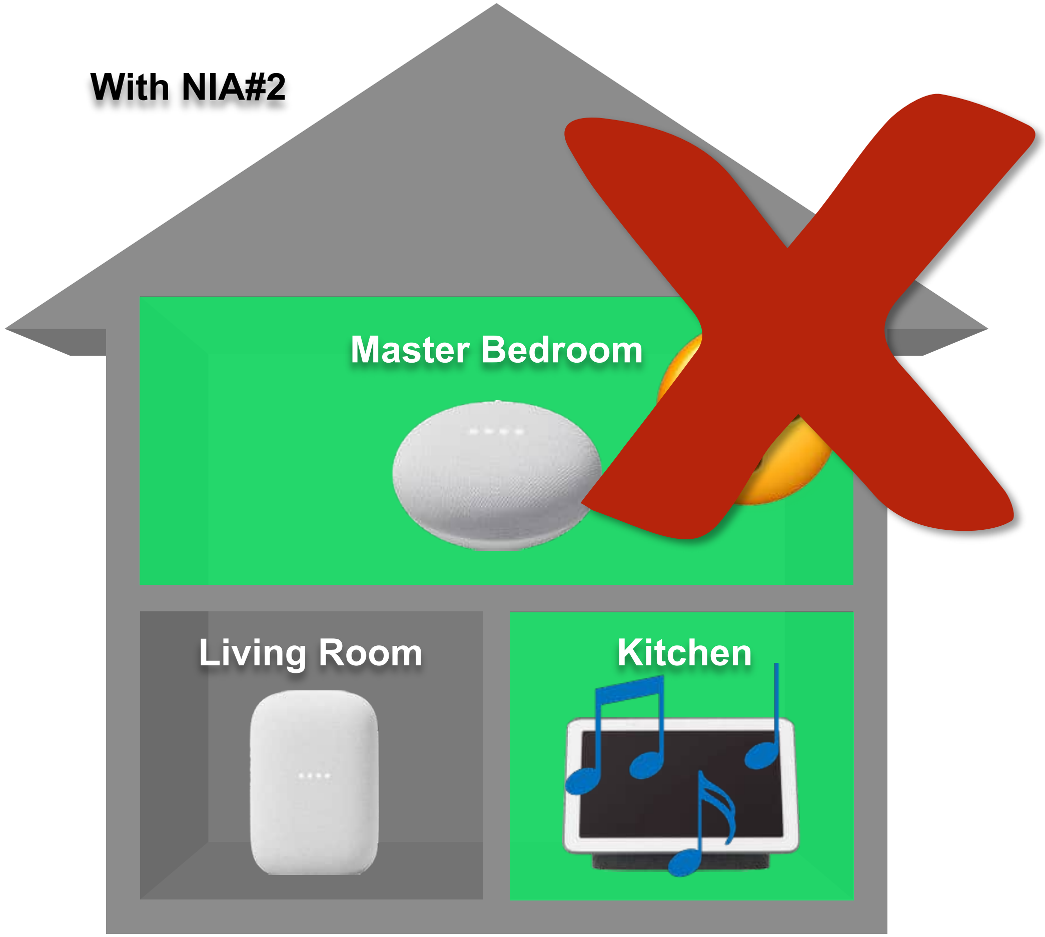
Master Bedroom

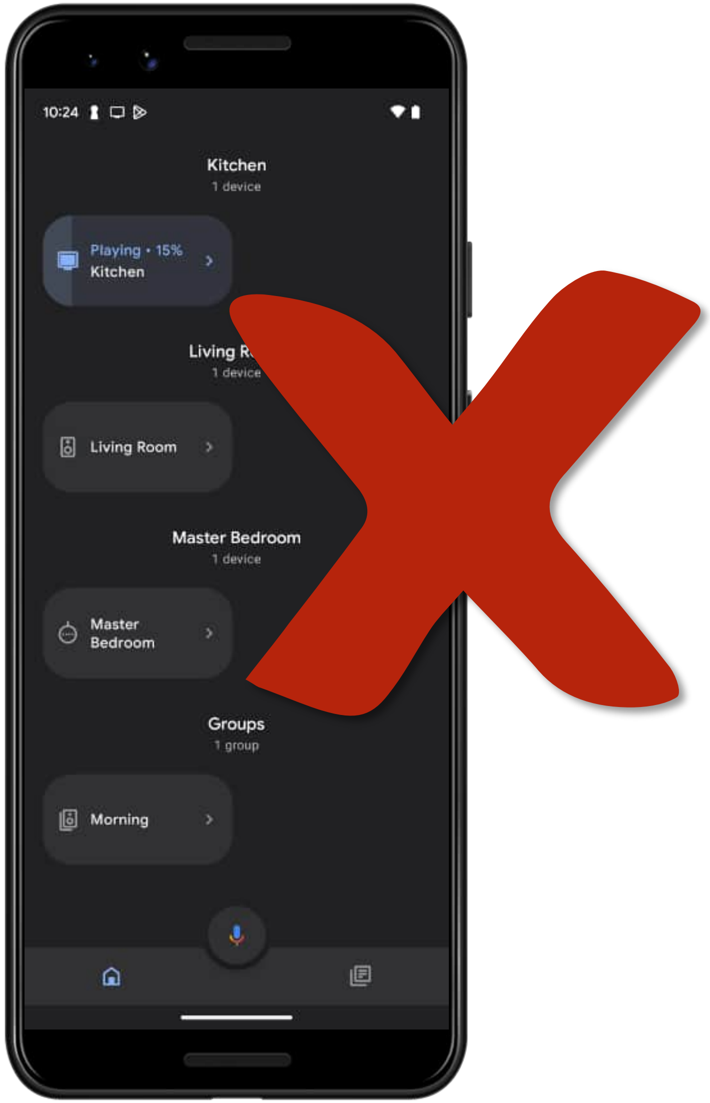
Groups
1 group

Morning

NIA #2: “No Standalone Mode” is Not Commercially Acceptable

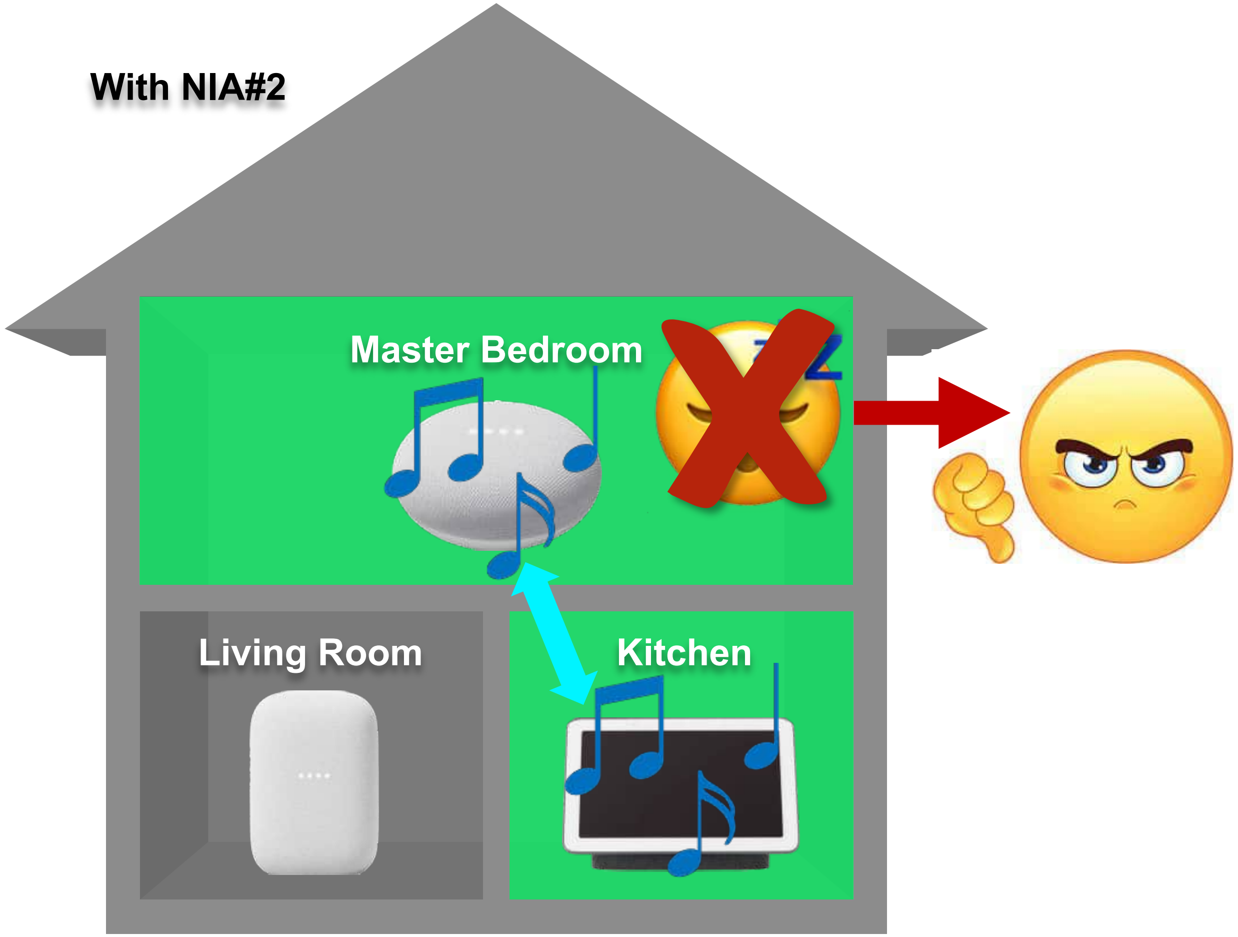
First Scenario – someone sleeping in master bedroom

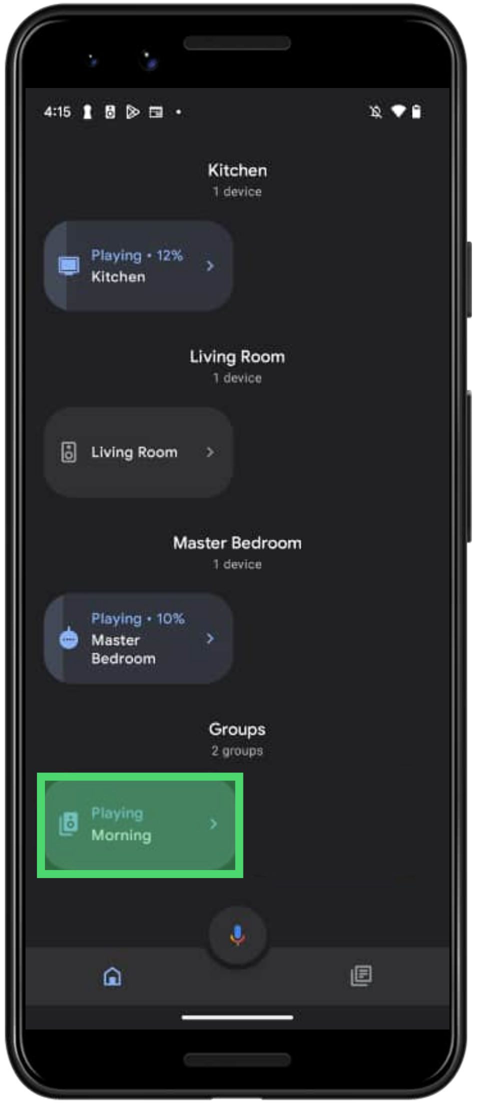

With NIA#2
Master Bedroom
Living Room
Kitchen


10:24
Kitchen
1 device
Playing • 15%
Kitchen
Living R
1 device
Living Room
Master Bedroom
1 device
Master Bedroom
Groups
1 group
Morning

NIA #2: “No Standalone Mode” is Not Commercially Acceptable

First Scenario – someone sleeping in master bedroom


With NIA#2
Master Bedroom
Living Room
Kitchen


4:15

Kitchen
1 device

Playing • 12%
Kitchen

Living Room
1 device

Living Room

Master Bedroom
1 device

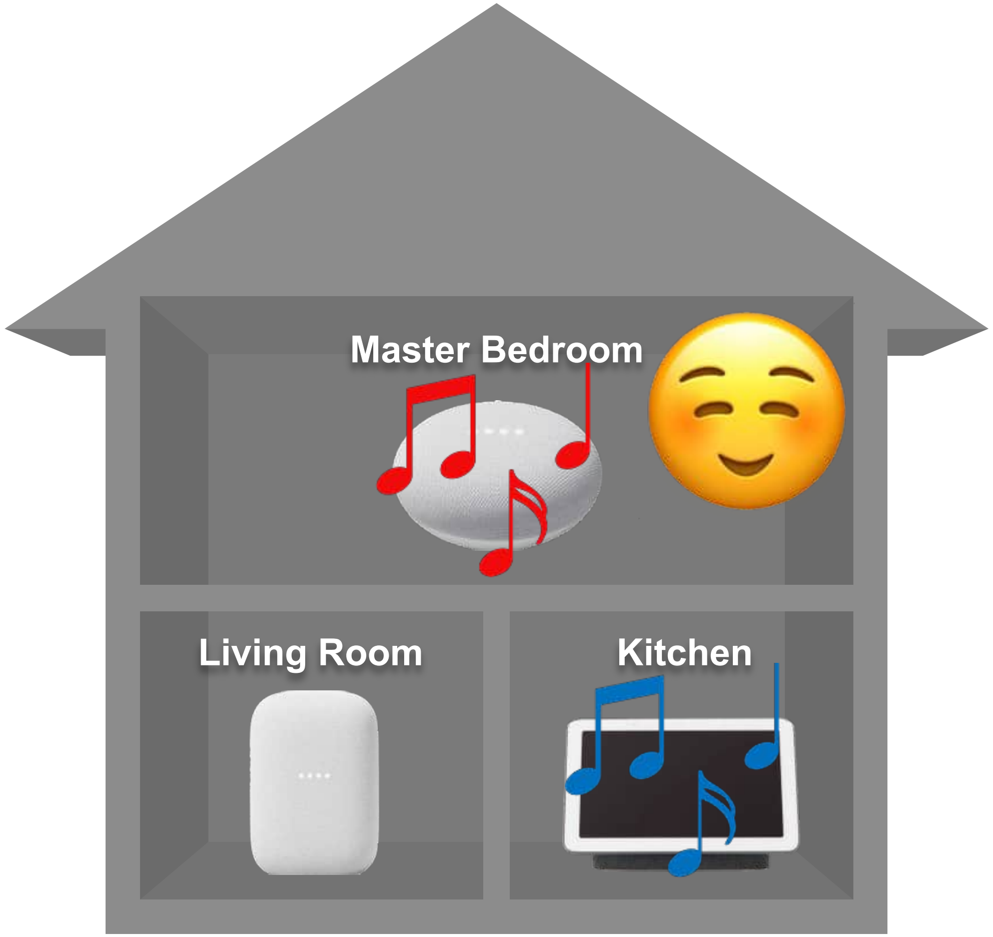
Playing • 10%
Master Bedroom

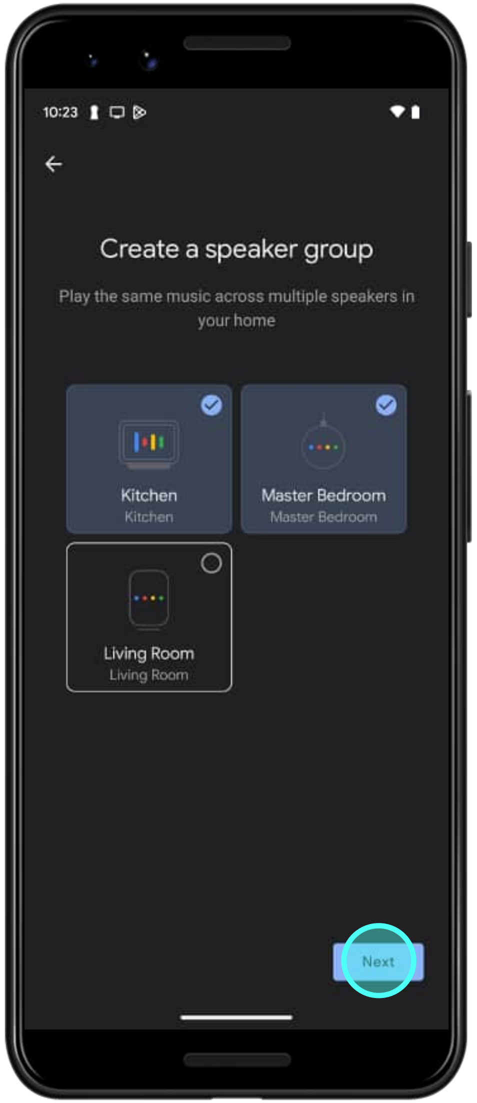
Groups
2 groups

Playing
Morning

NIA #2: “No Standalone Mode” is Not Commercially Acceptable

Second Scenario – two people enjoying music in different rooms


Master Bedroom
Living Room
Kitchen


10:23
←

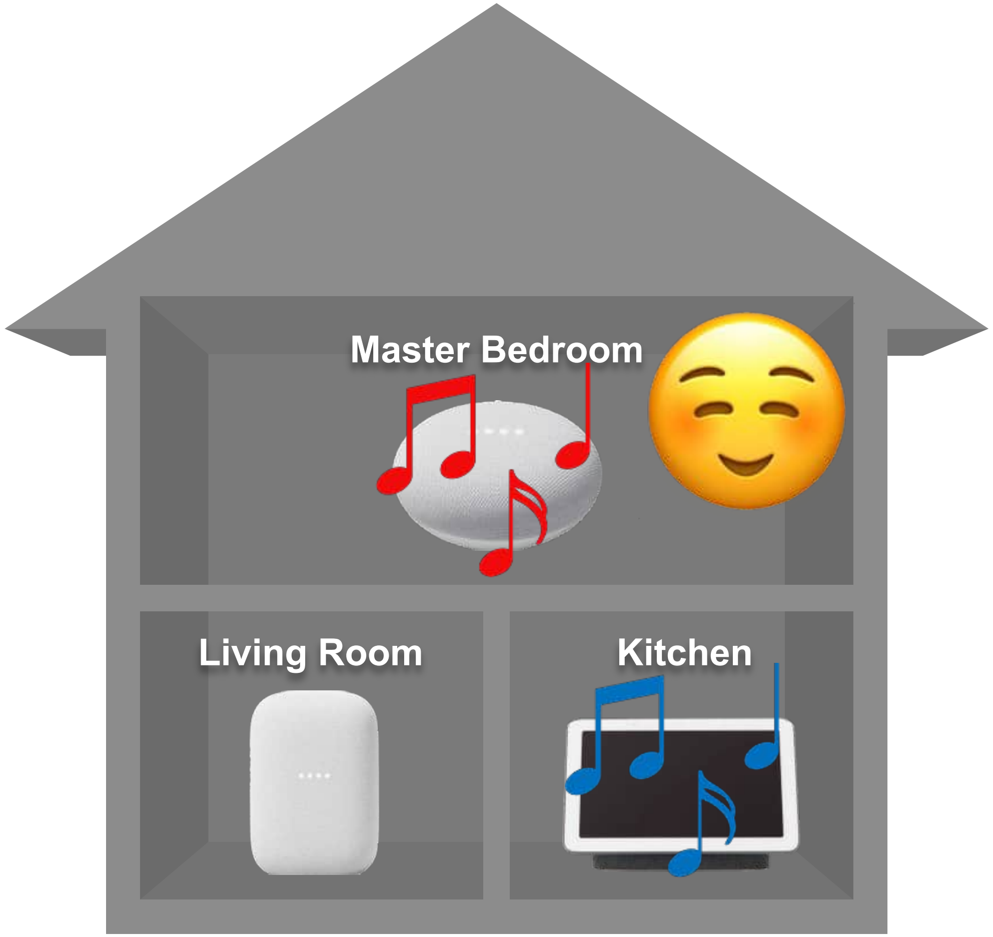
Create a speaker group

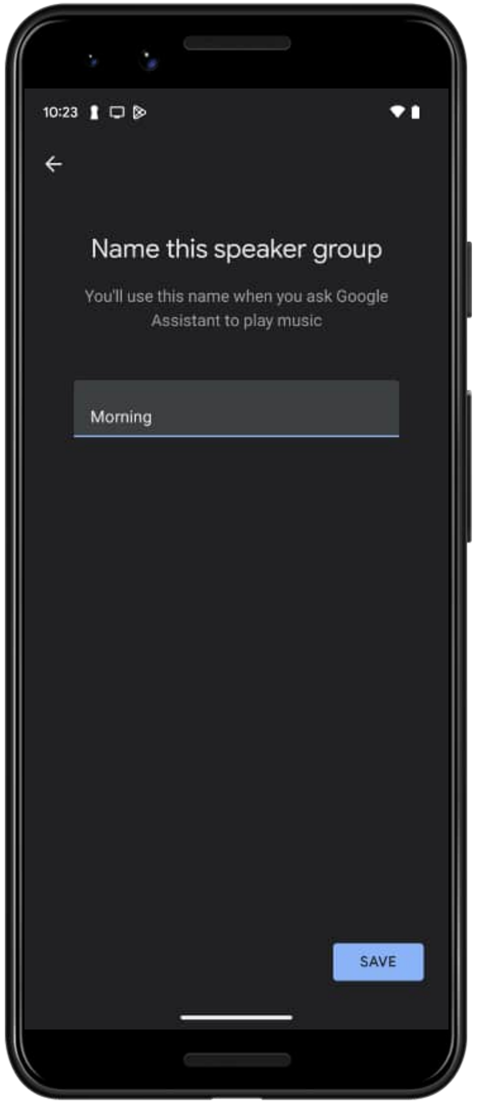
Play the same music across multiple speakers in your home

☑ Kitchen
Kitchen
☑ Master Bedroom
Master Bedroom
○ Living Room
Living Room
Next

NIA #2: "No Standalone Mode" is Not Commercially Acceptable

Second Scenario – two people enjoying music in different rooms


Master Bedroom
Living Room
Kitchen



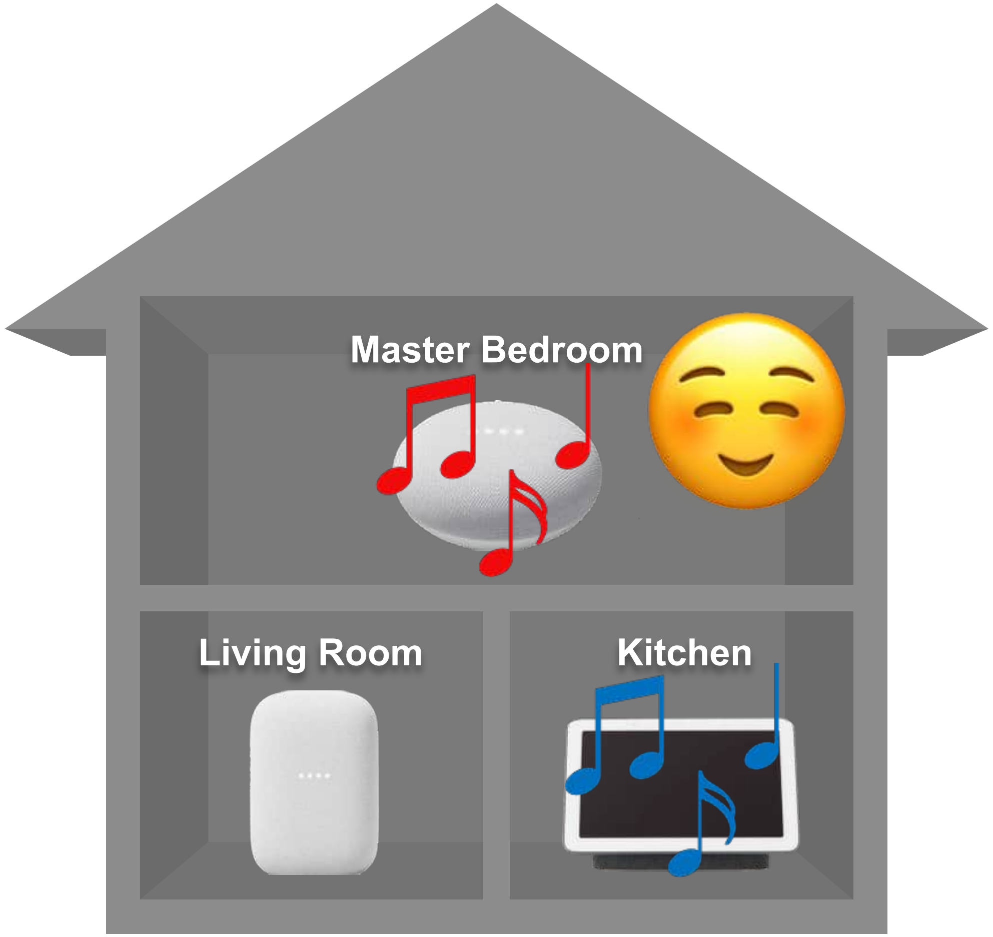
Name this speaker group

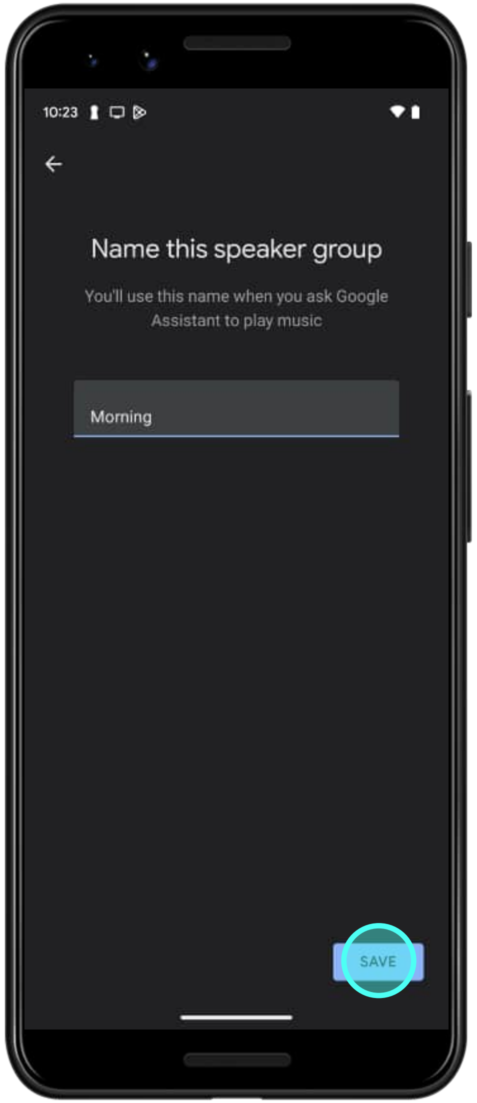
You'll use this name when you ask Google Assistant to play music

Morning

NIA #2: "No Standalone Mode" is Not Commercially Acceptable

Second Scenario – two people enjoying music in different rooms


Master Bedroom
Living Room
Kitchen



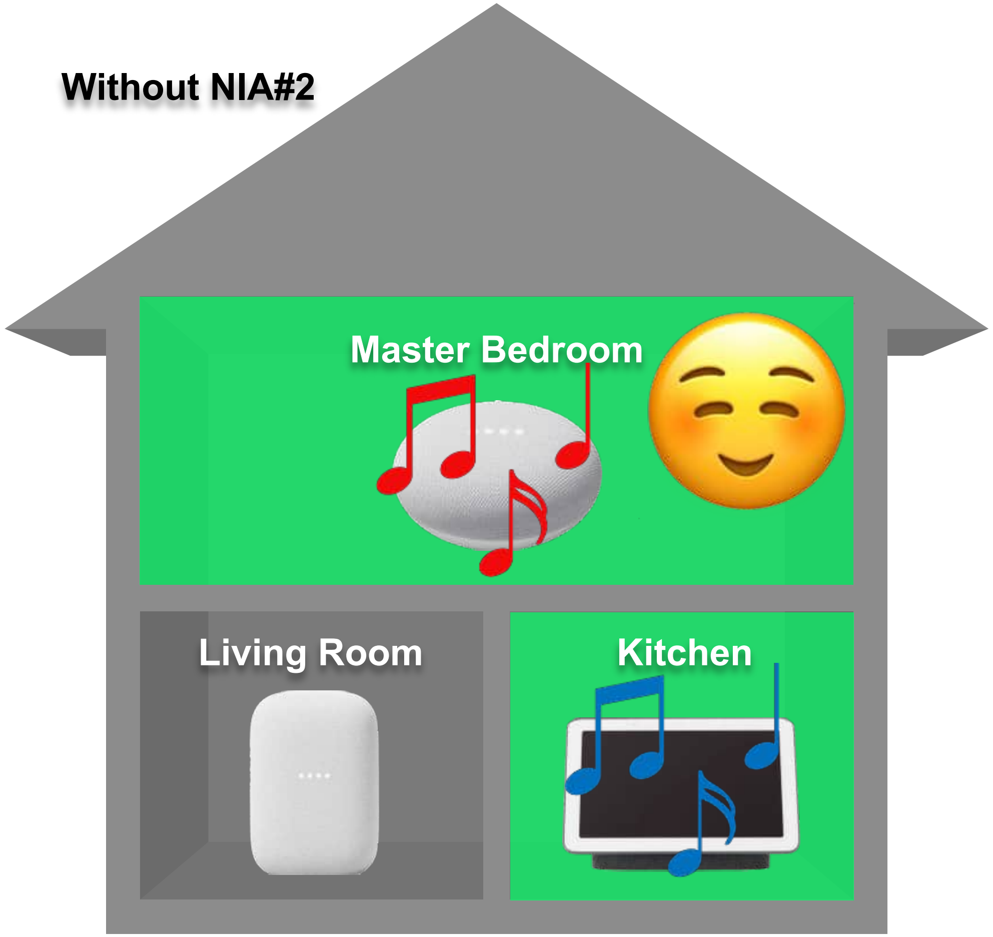
Name this speaker group

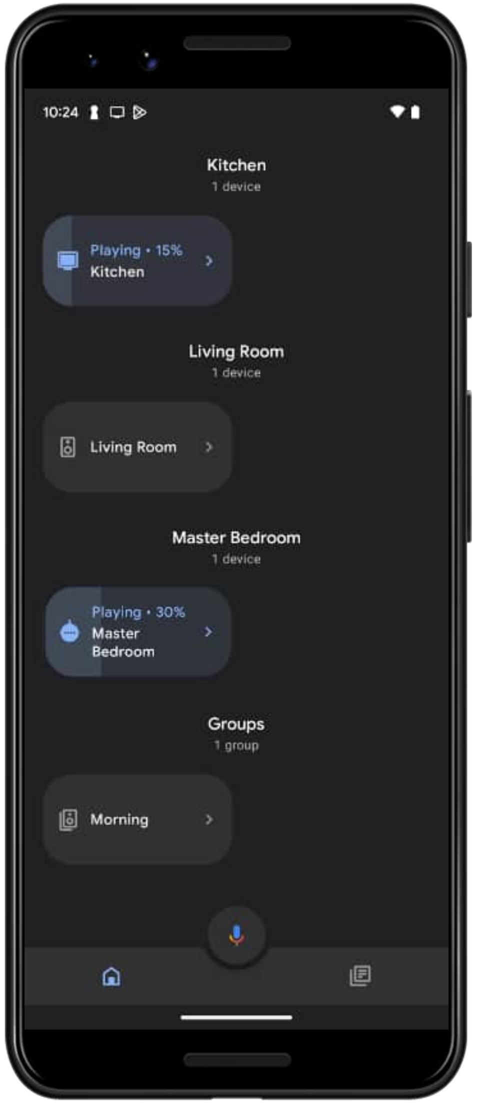
You'll use this name when you ask Google Assistant to play music

Morning

NIA #2: “No Standalone Mode” is Not Commercially Acceptable

Second Scenario – two people enjoying music in different rooms


Without NIA#2
Master Bedroom
Living Room
Kitchen


10:24

Kitchen
1 device

Playing • 15%
Kitchen

Living Room
1 device

Living Room

Master Bedroom
1 device

Playing • 30%
Master Bedroom

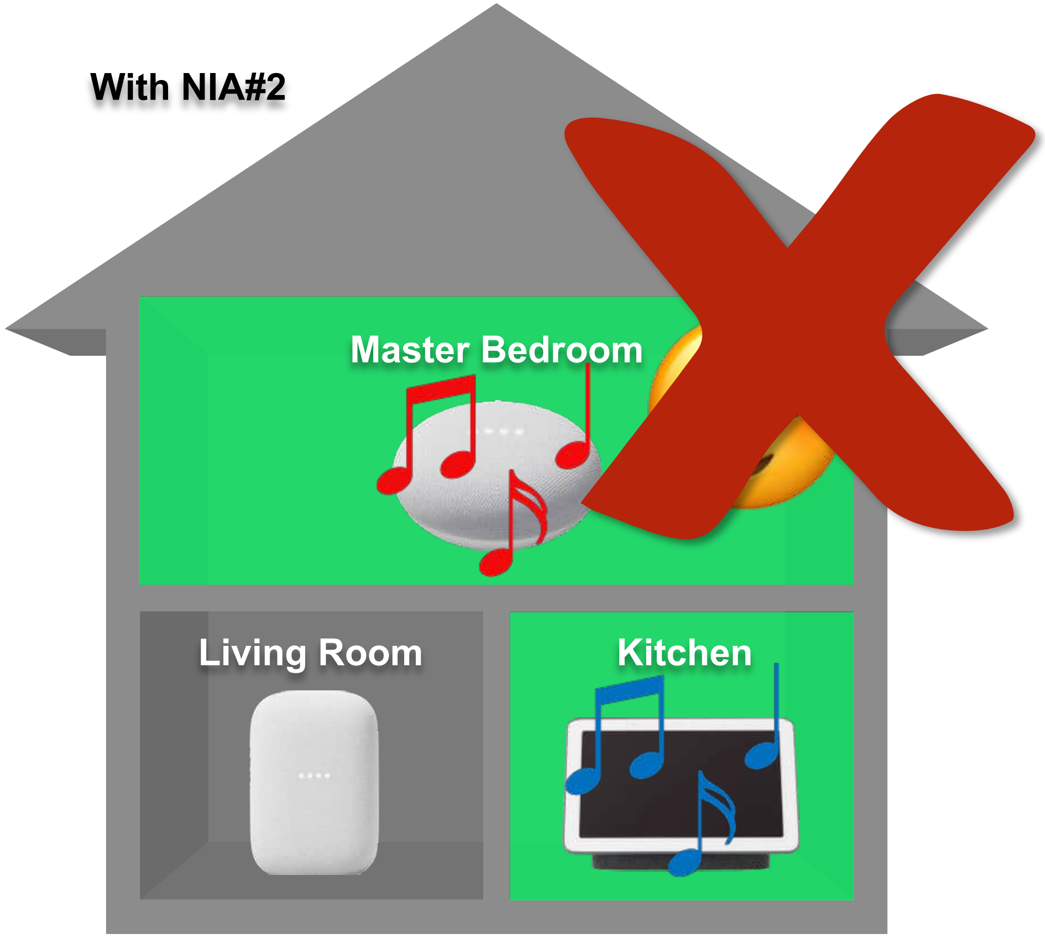
Groups
1 group

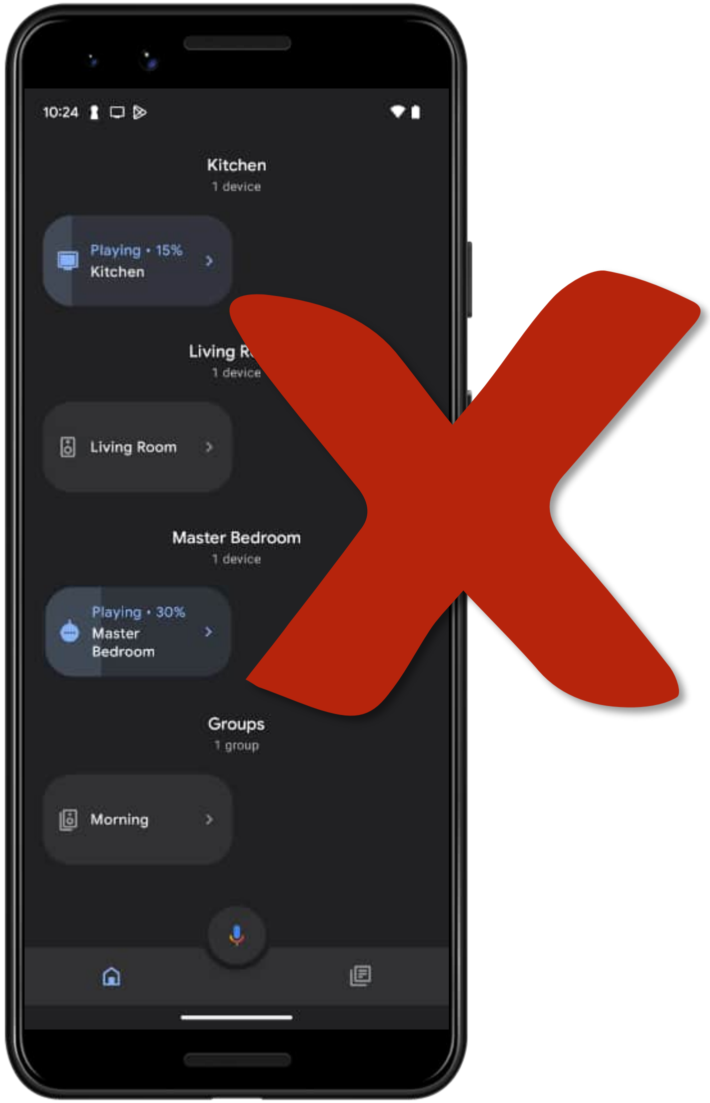
Morning

NIA #2: “No Standalone Mode” is Not Commercially Acceptable

Second Scenario – two people enjoying music in different rooms

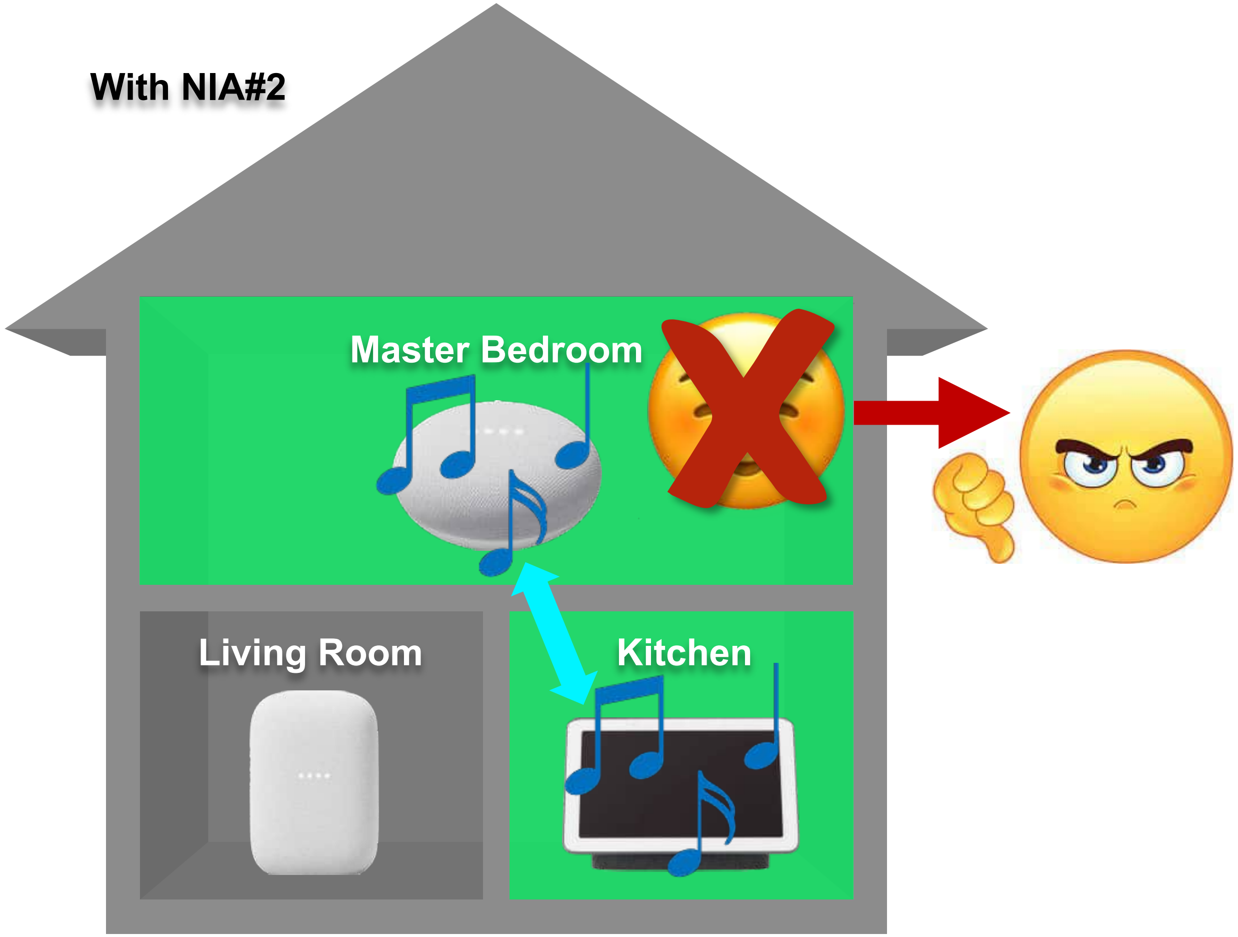
With NIA#2

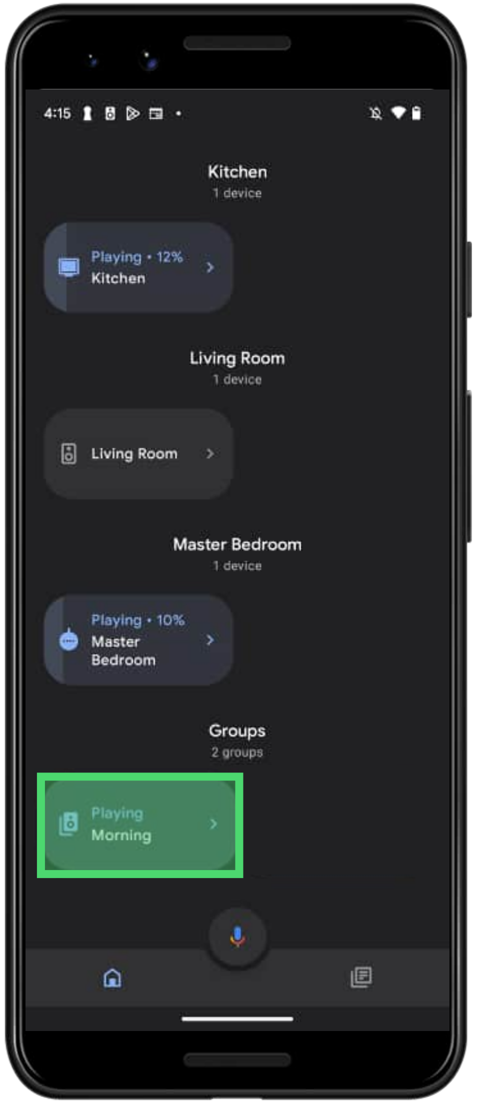

Master Bedroom
Living Room
Kitchen


10:24
Kitchen
1 device
Playing • 15%
Kitchen
Living R
1 device
Living Room
Master Bedroom
1 device
Playing • 30%
Master Bedroom
Groups
1 group
Morning

NIA #2: “No Standalone Mode” is Not Commercially Acceptable

Second Scenario – two people enjoying music in different rooms


With NIA#2
Master Bedroom
Living Room
Kitchen


4:15

Kitchen
1 device

Playing • 12%
Kitchen

Living Room
1 device

Living Room

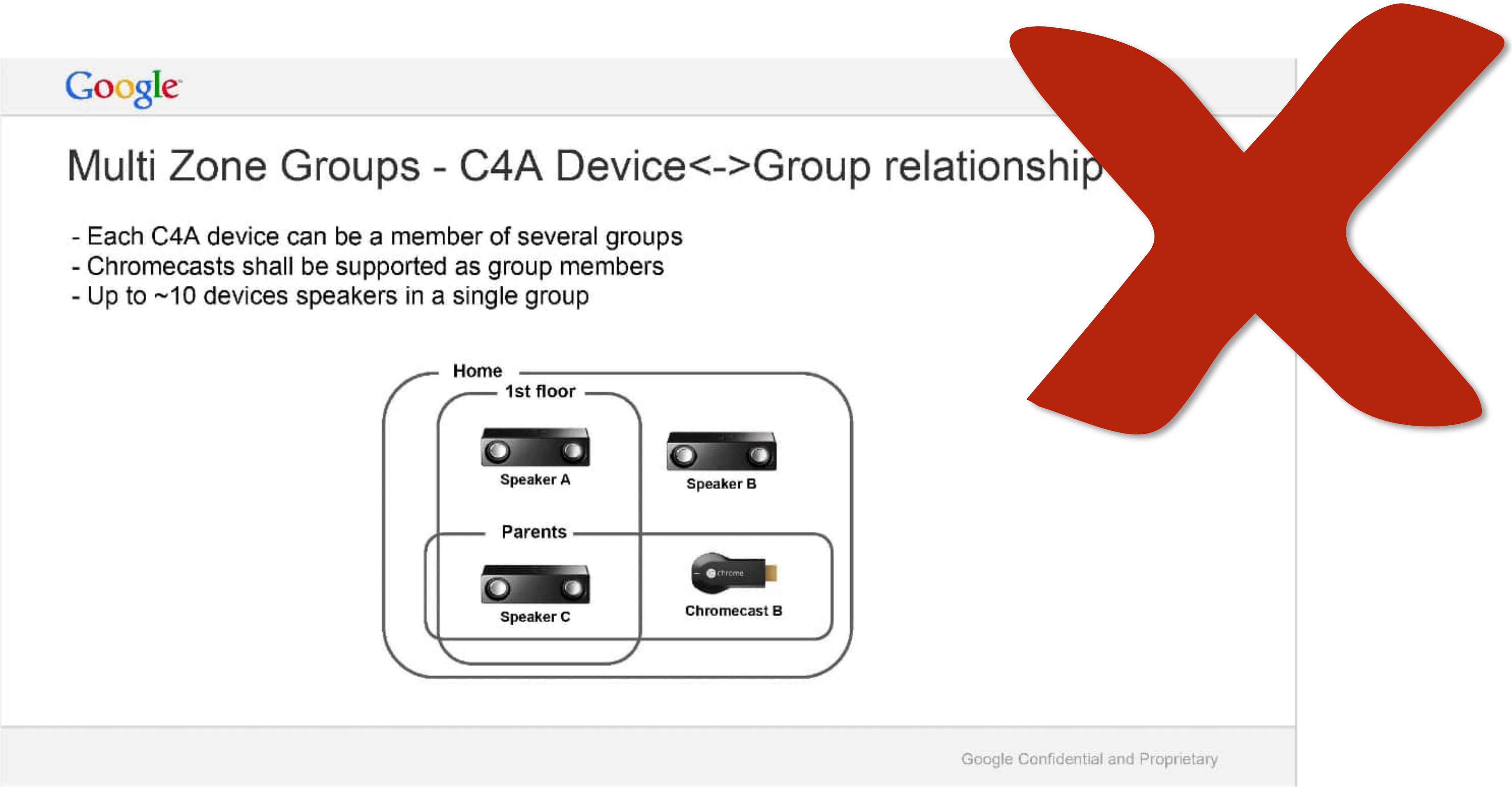
Master Bedroom
1 device

Playing • 10%
Master Bedroom

Groups
2 groups

Playing
Morning

NIA #3: “No Overlapping Groups” is Not Commercially Acceptable



Google

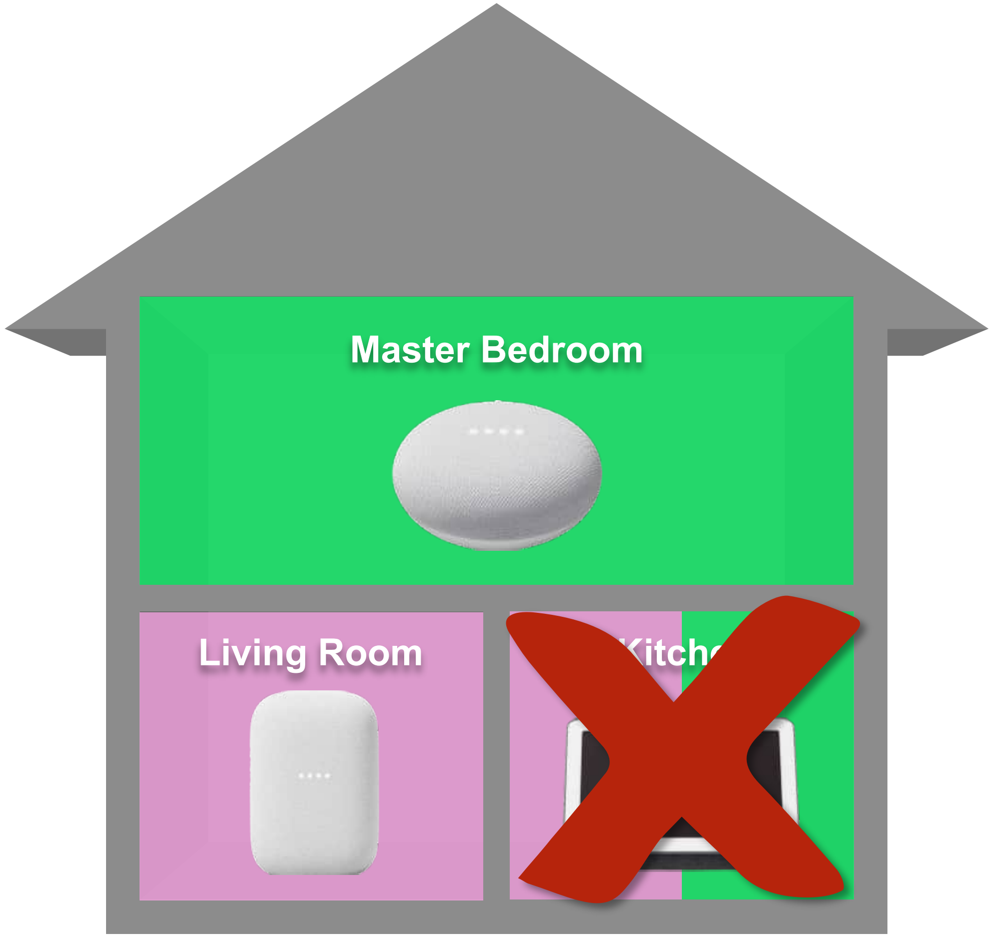
Multi Zone Groups - C4A Device<->Group relationship

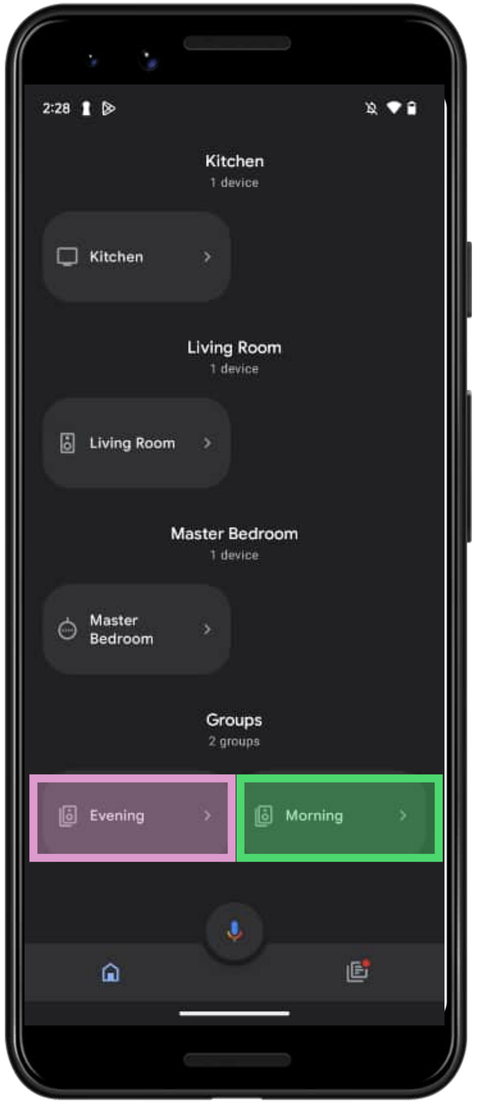
- Each C4A device can be a member of several groups
- Chromecasts shall be supported as group members
- Up to ~10 devices speakers in a single group

Home
1st floor
Speaker A
Speaker B
Parents
Speaker C
chrome
Chromecast B

Google Confidential and Proprietary

NIA #3: “No Overlapping Groups” is Not Commercially Acceptable


Master Bedroom
Living Room
Kitch



Kitchen
1 device

Kitchen

Living Room
1 device

Living Room

Master Bedroom
1 device

Master Bedroom

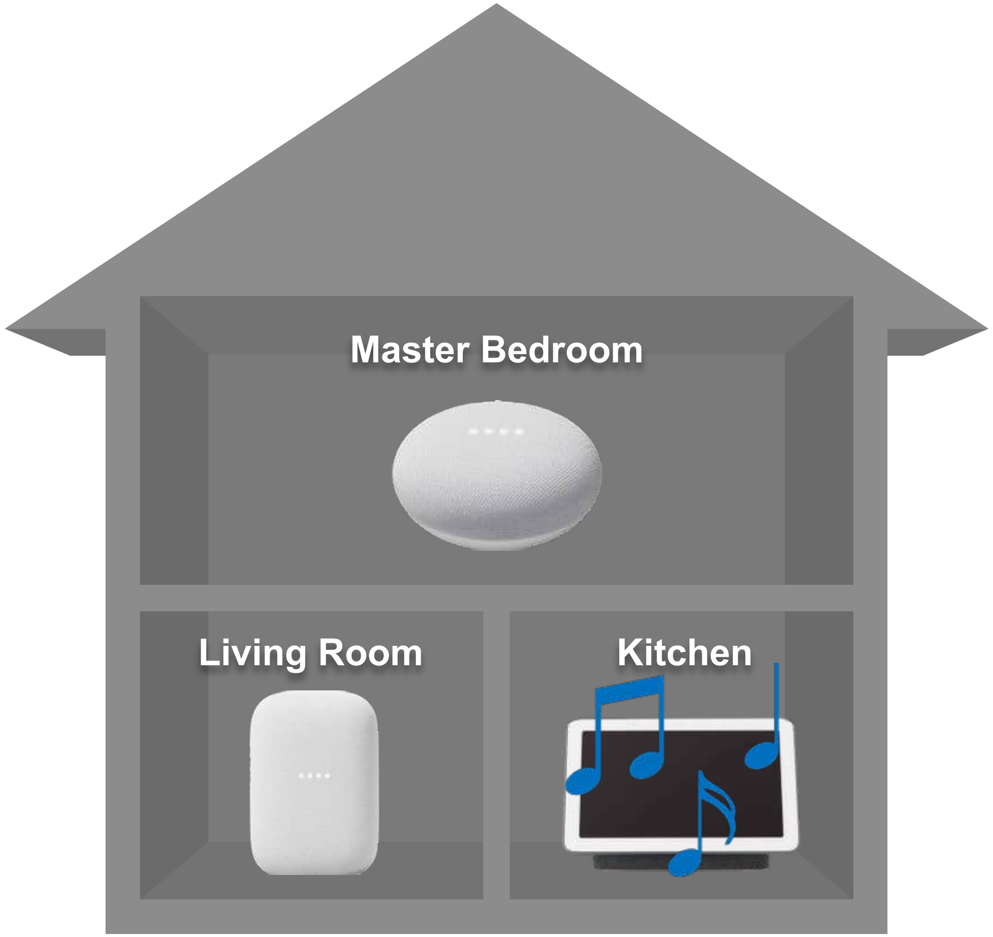
Groups
2 groups

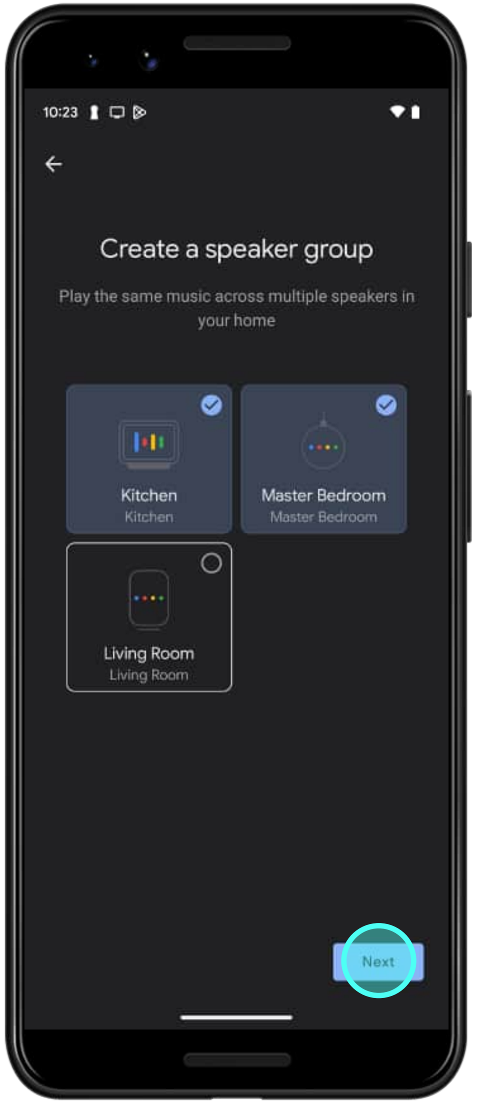
Evening

Morning

NIA #3: "No Overlapping Groups" is Not Commercially Acceptable

First Scenario – trying to create and save two different groups


Master Bedroom
Living Room
Kitchen


10:23

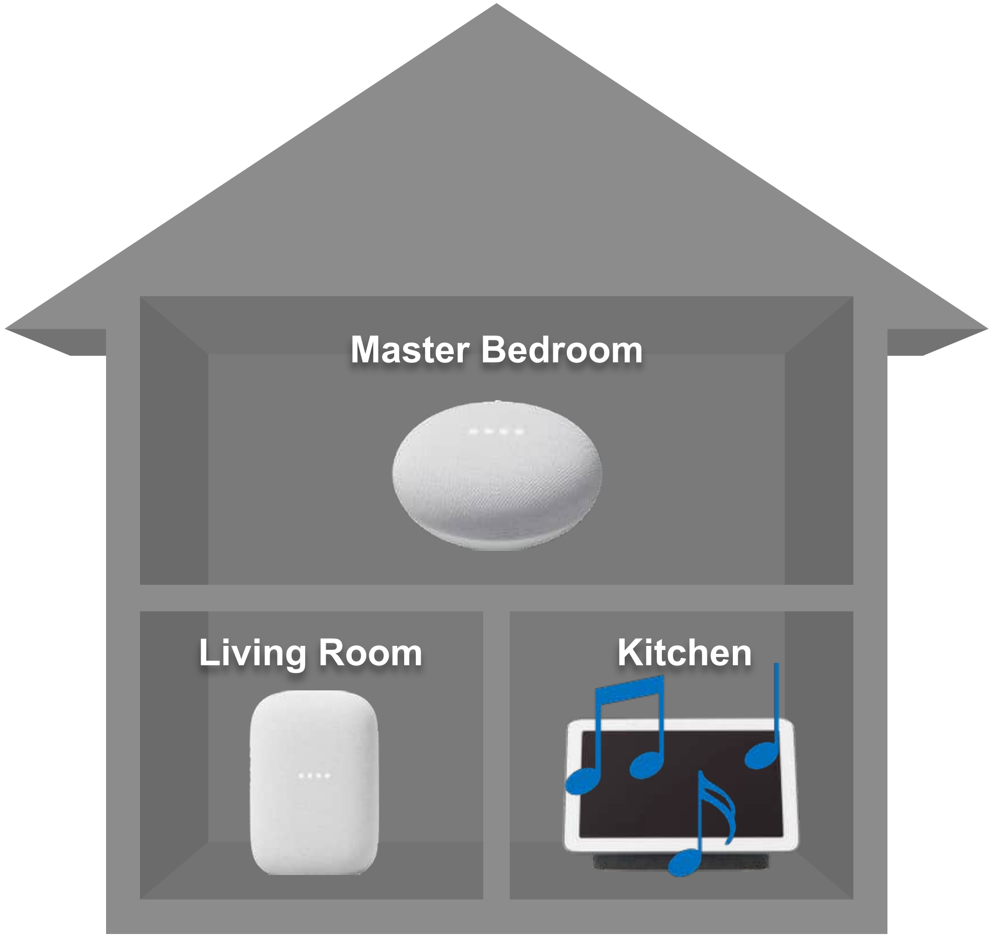
Create a speaker group

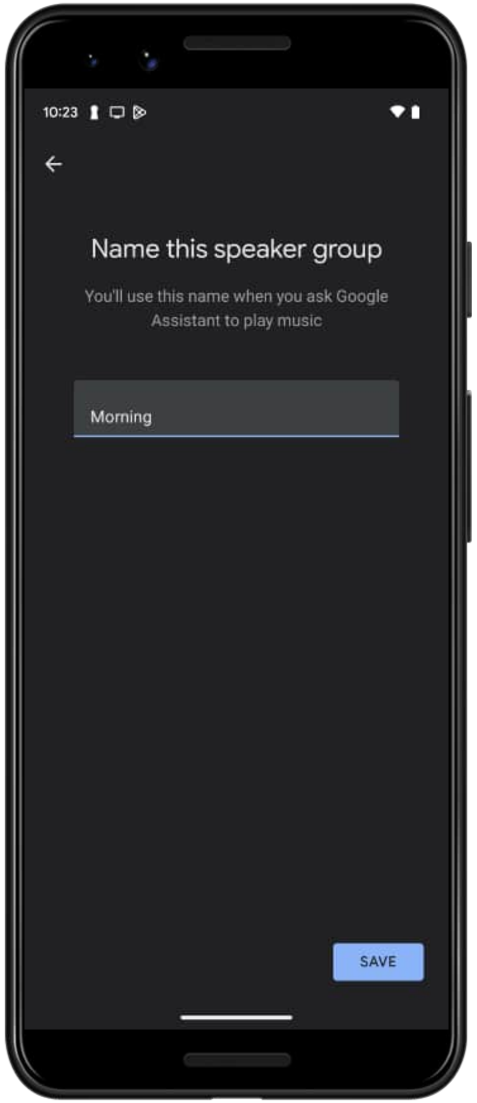
Play the same music across multiple speakers in your home

Kitchen
Kitchen
Master Bedroom
Master Bedroom
Living Room
Living Room
Next

NIA #3: "No Overlapping Groups" is Not Commercially Acceptable

First Scenario – trying to create and save two different groups


Master Bedroom
Living Room
Kitchen



Name this speaker group

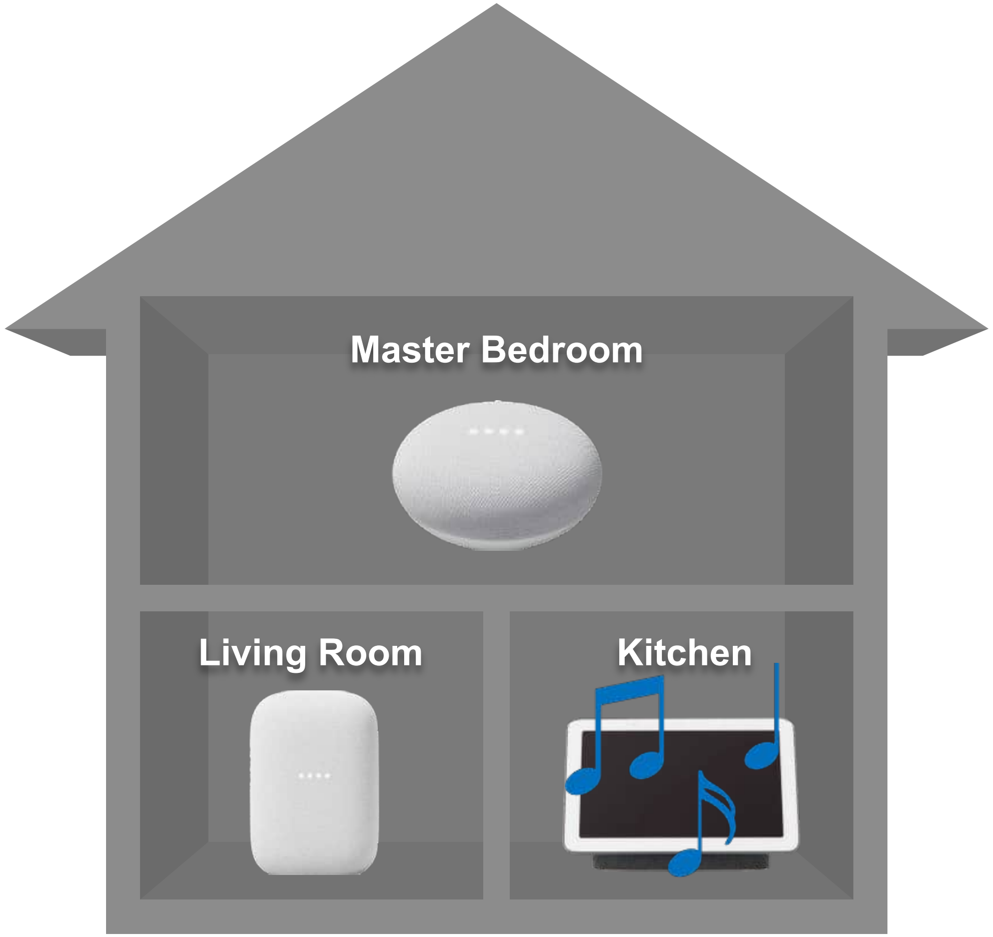
You'll use this name when you ask Google Assistant to play music

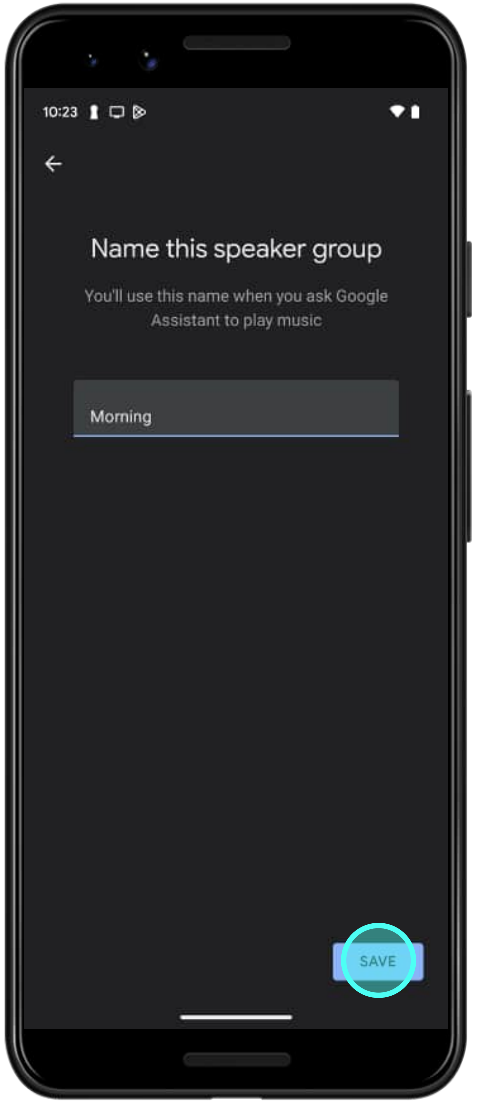
Morning

EXHIBIT A - FILED UNDER SEAL

NIA #3: "No Overlapping Groups" is Not Commercially Acceptable

First Scenario – trying to create and save two different groups


Master Bedroom
Living Room
Kitchen



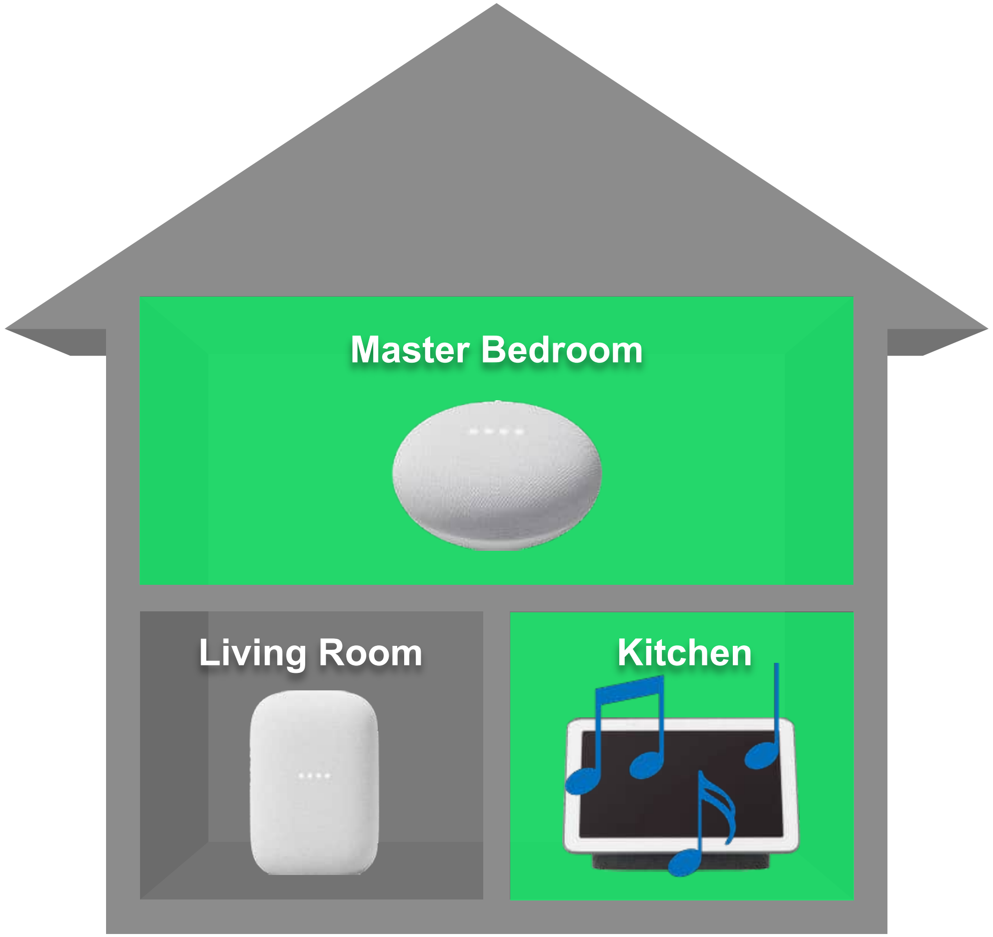
Name this speaker group

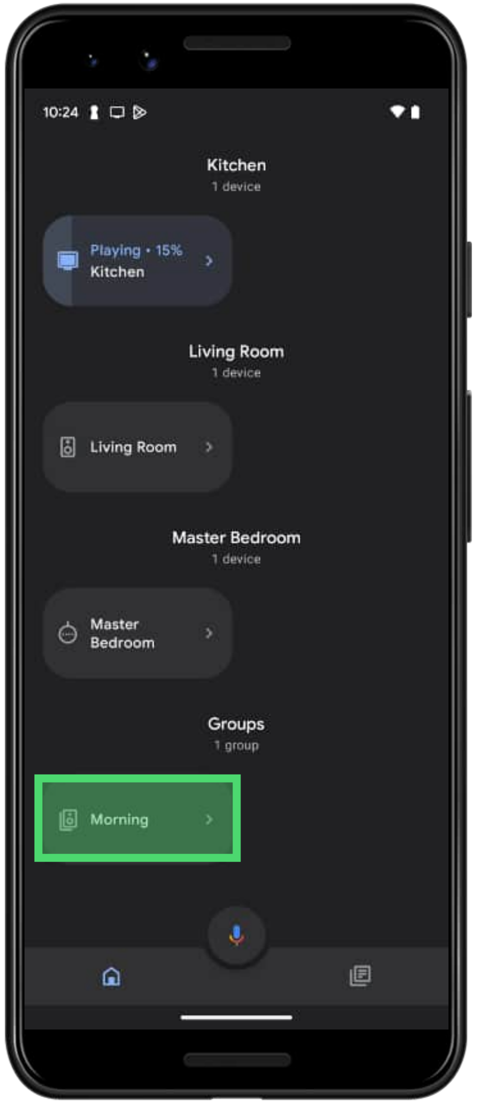
You'll use this name when you ask Google Assistant to play music

Morning

NIA #3: "No Overlapping Groups" is Not Commercially Acceptable

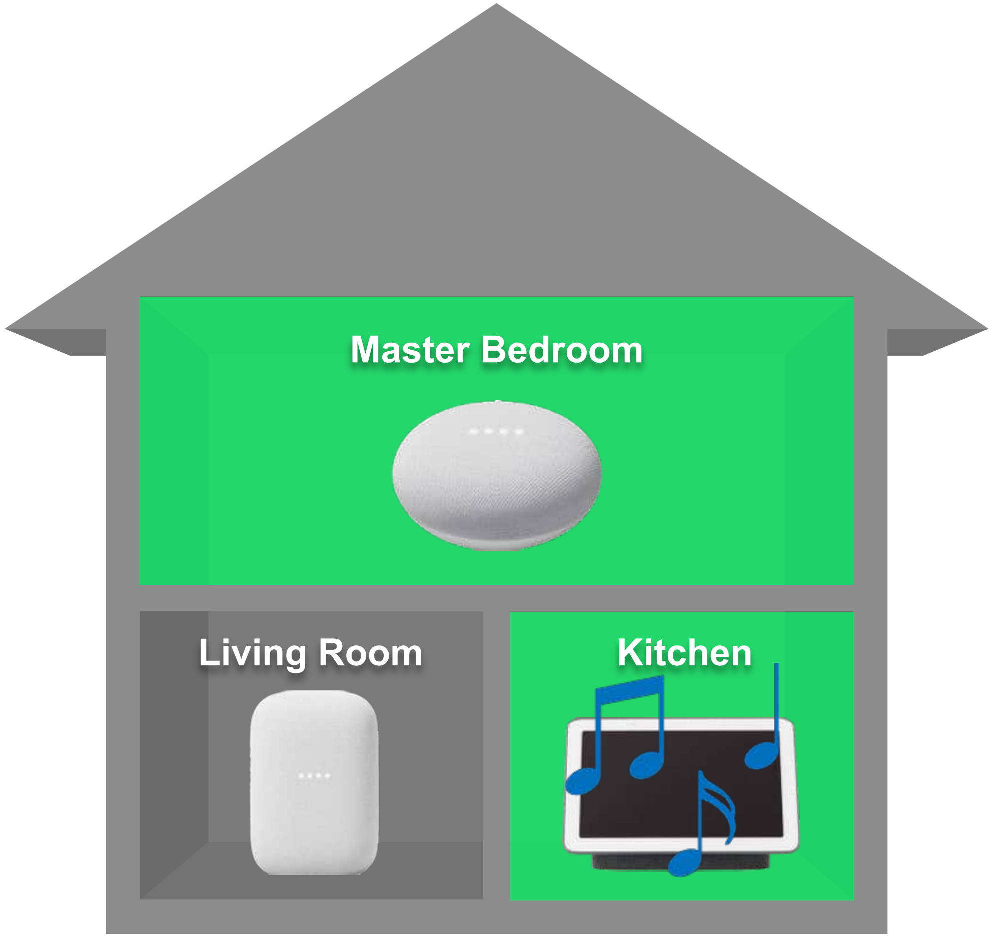
First Scenario – trying to create and save two different groups

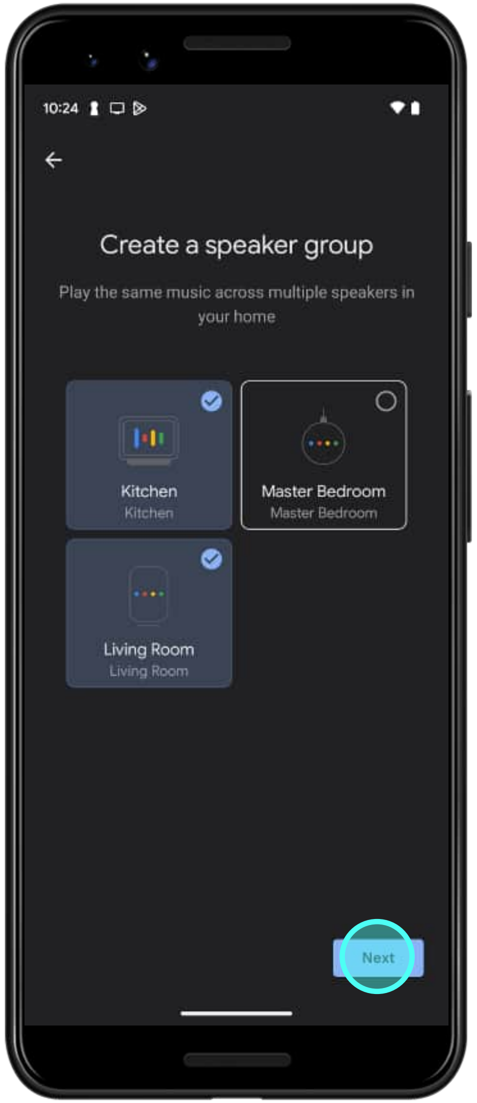

Master Bedroom
Living Room
Kitchen


10:24
Kitchen
1 device
Playing • 15%
Kitchen
Living Room
1 device
Living Room
Master Bedroom
1 device
Master Bedroom
Groups
1 group
Morning

NIA #3: “No Overlapping Groups” is Not Commercially Acceptable

First Scenario – trying to create and save two different groups


Master Bedroom
Living Room
Kitchen


10:24

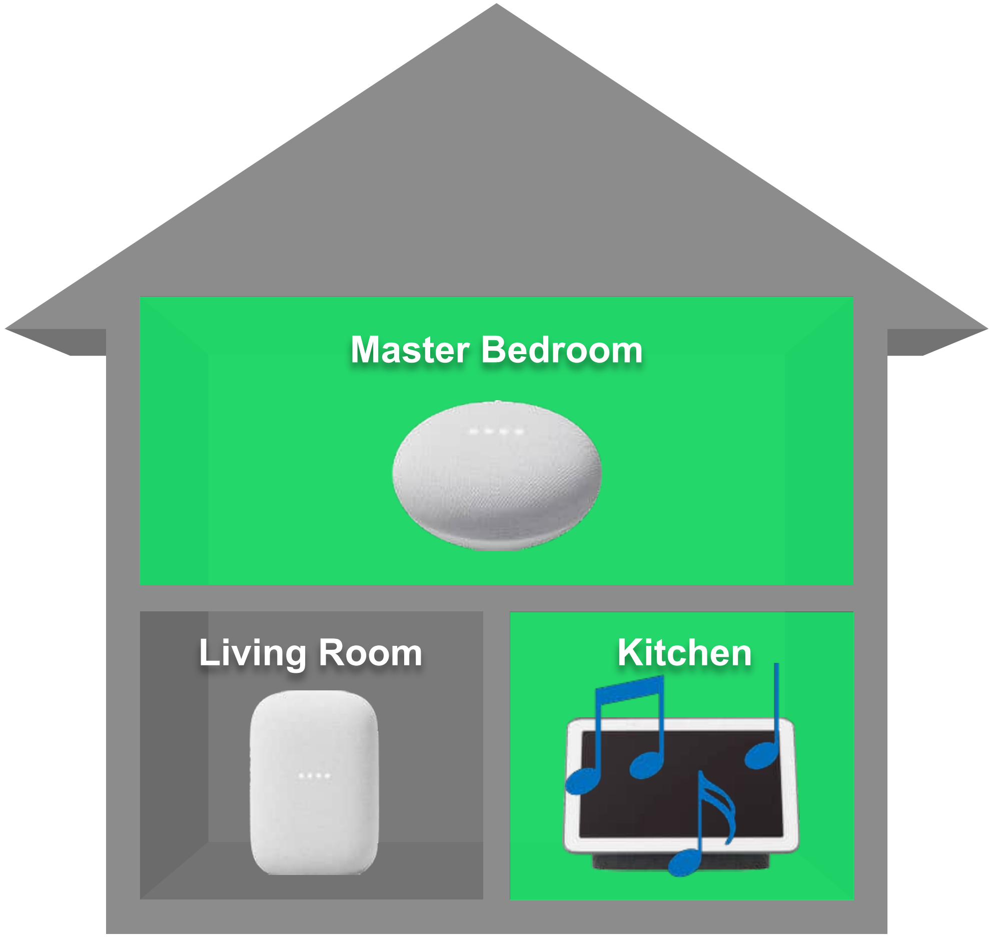
Create a speaker group

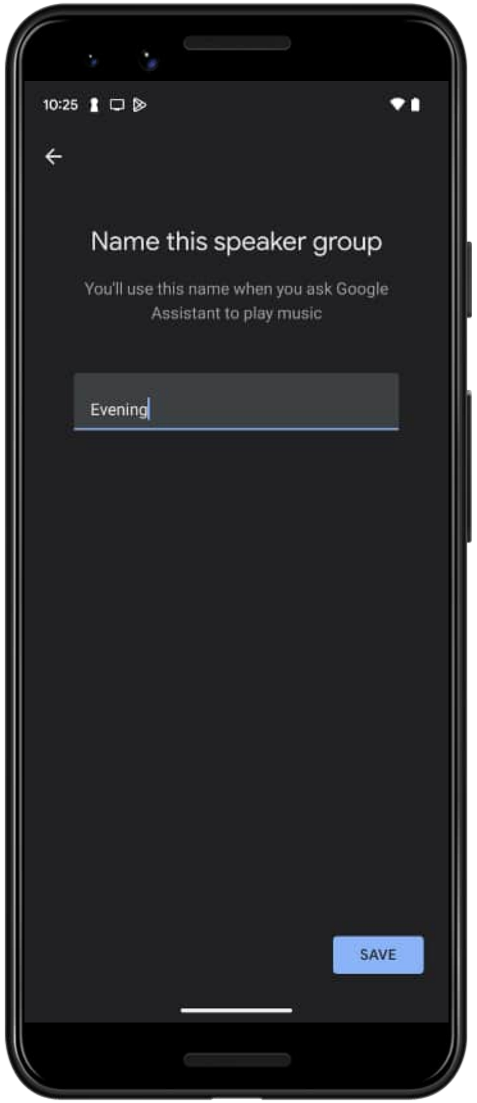
Play the same music across multiple speakers in your home

Kitchen
Kitchen
Master Bedroom
Master Bedroom
Living Room
Living Room
Next

NIA #3: “No Overlapping Groups” is Not Commercially Acceptable

First Scenario – trying to create and save two different groups


Master Bedroom
Living Room
Kitchen



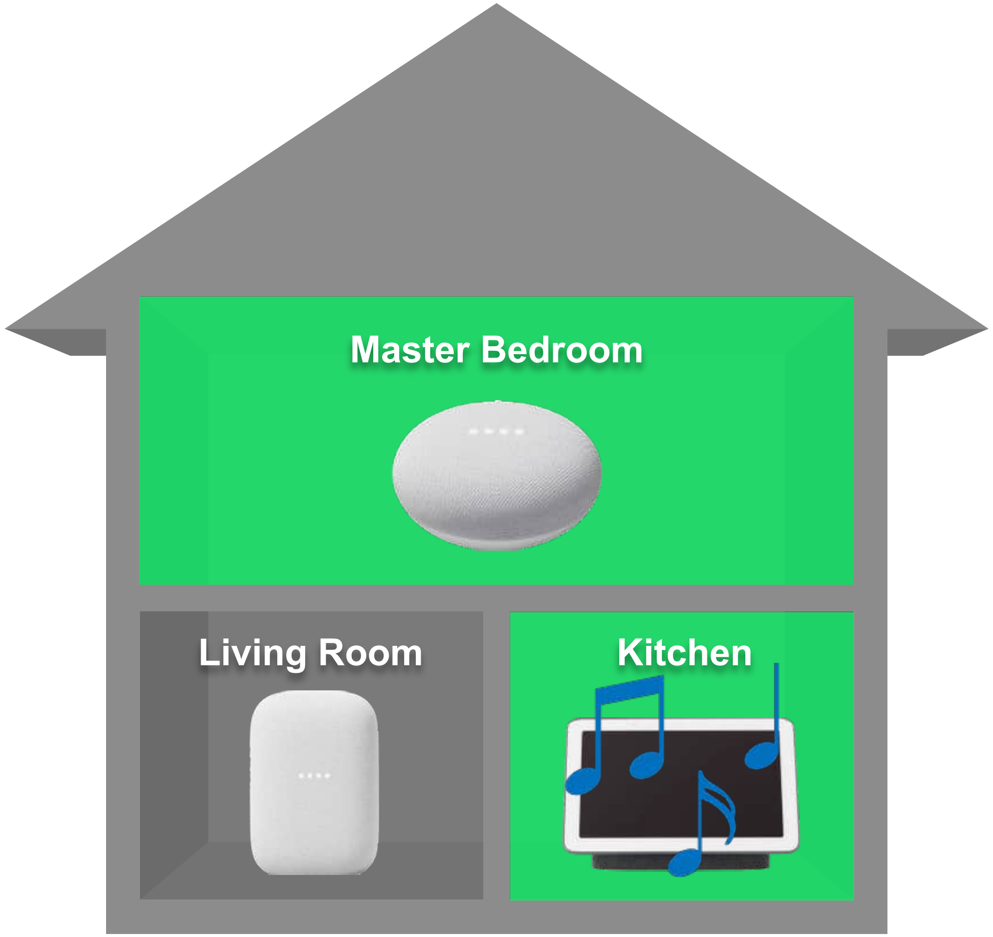
Name this speaker group

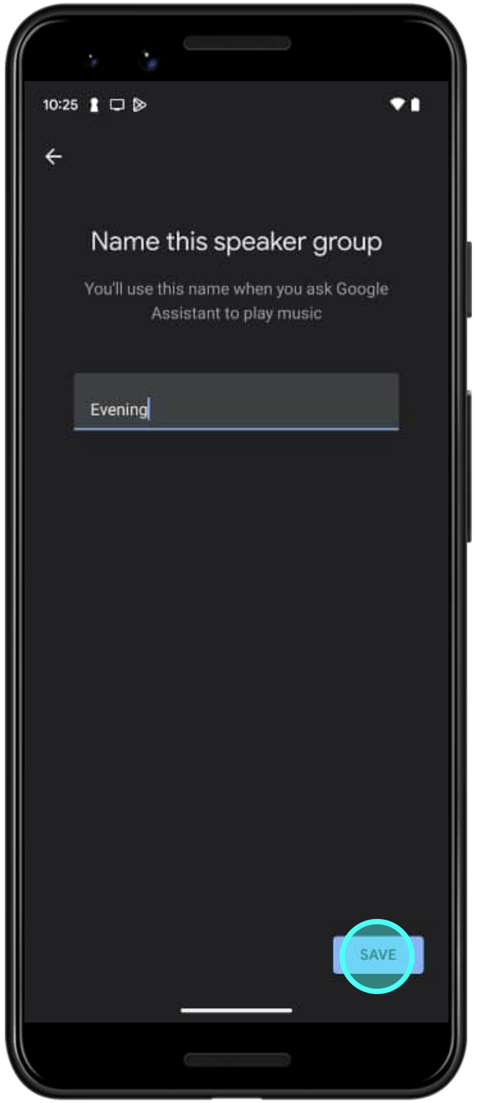
You'll use this name when you ask Google Assistant to play music

Evening

NIA #3: “No Overlapping Groups” is Not Commercially Acceptable

First Scenario – trying to create and save two different groups


Master Bedroom
Living Room
Kitchen



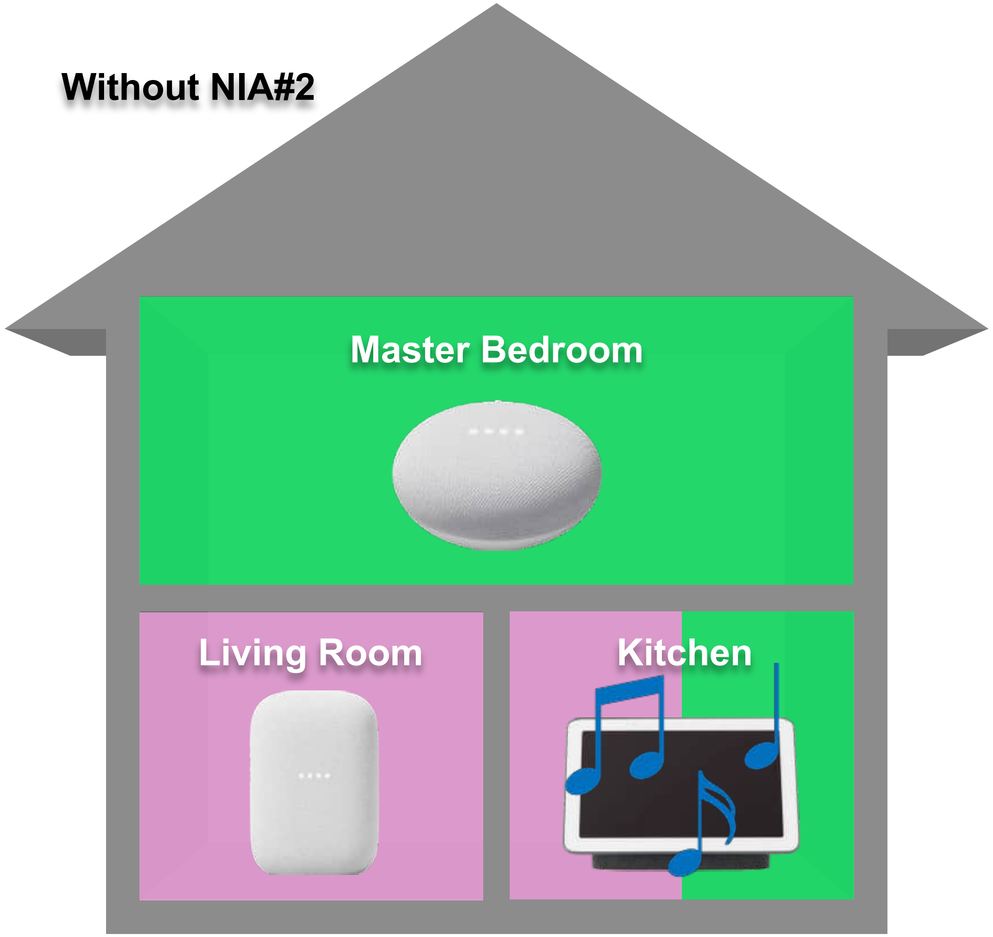
Name this speaker group

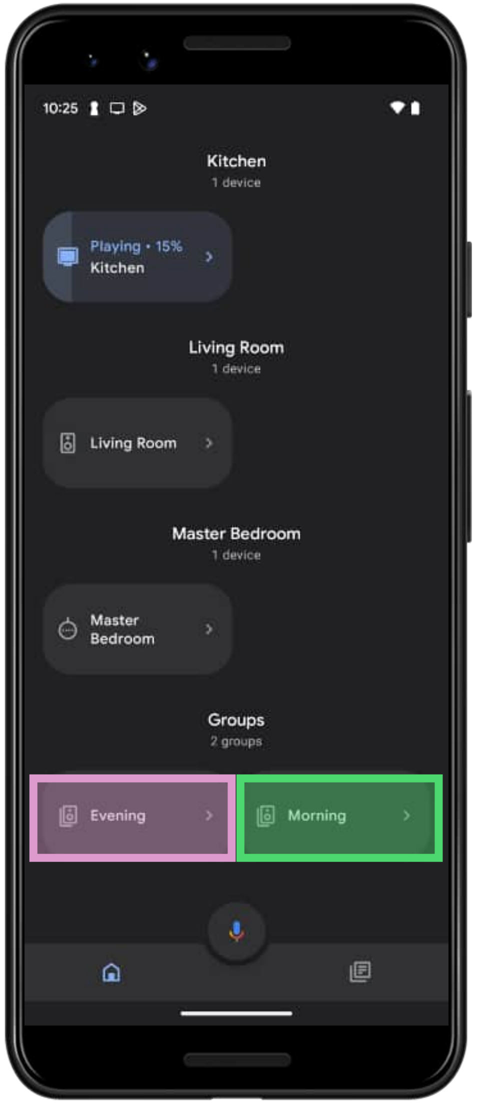
You'll use this name when you ask Google Assistant to play music

Evening

NIA #3: "No Overlapping Groups" is Not Commercially Acceptable

First Scenario – trying to create and save two different groups


Without NIA#2
Master Bedroom
Living Room
Kitchen



10:25

Kitchen
1 device

Playing • 15%
Kitchen

Living Room
1 device

Living Room

Master Bedroom
1 device

Master Bedroom

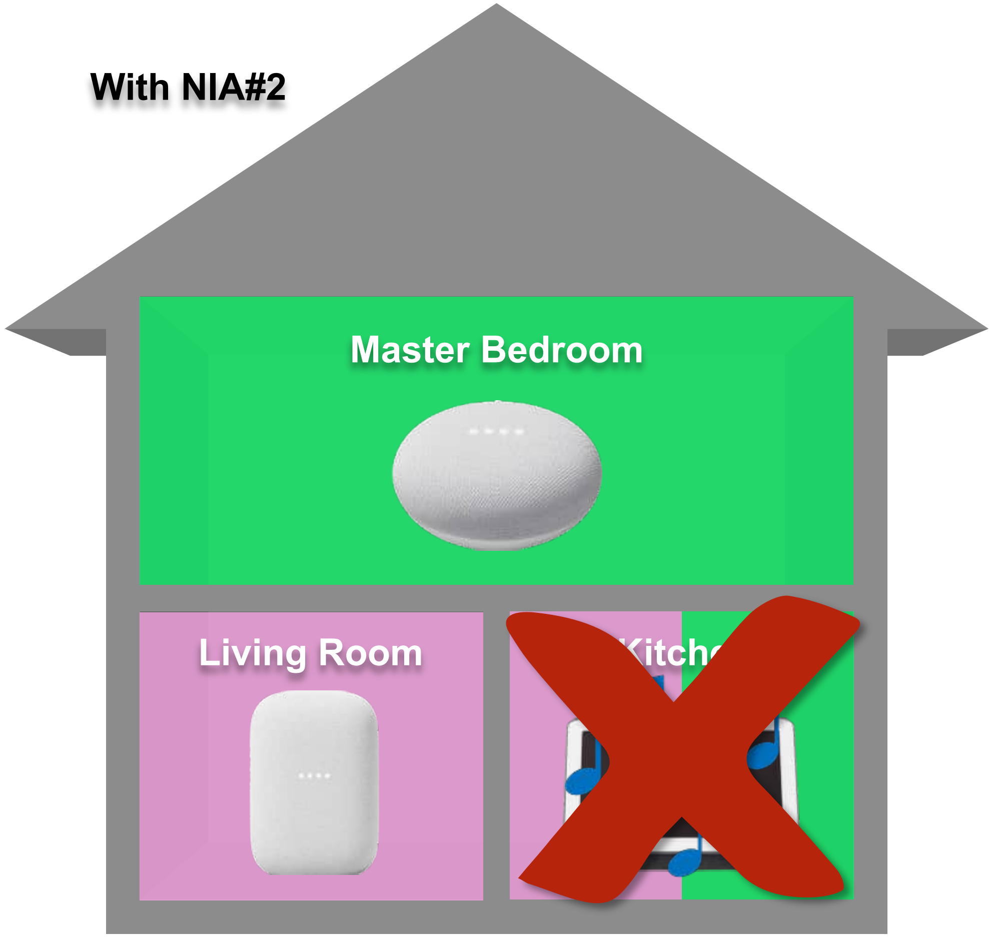
Groups
2 groups

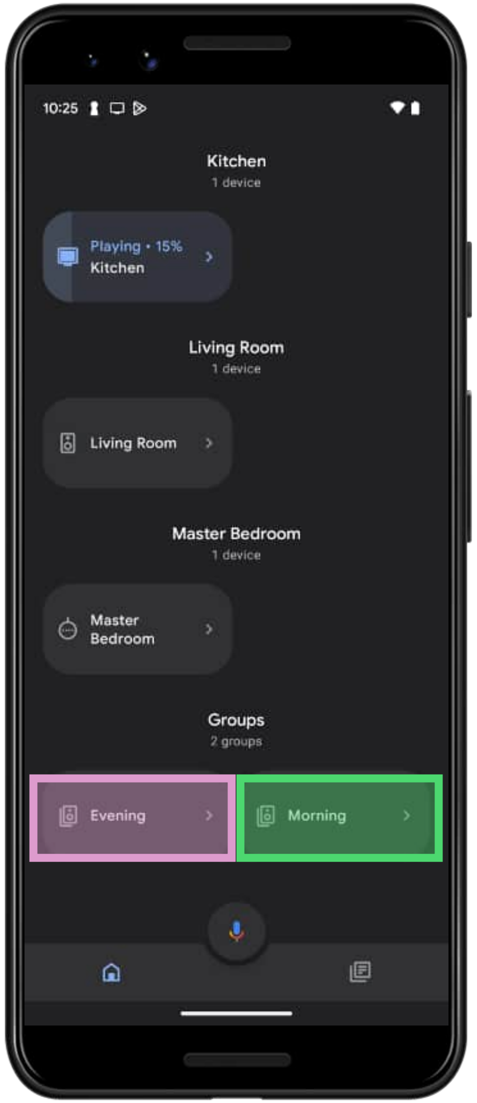
Evening

Morning

NIA #3: “No Overlapping Groups” is Not Commercially Acceptable

First Scenario – trying to create and save two different groups


With NIA#2
Master Bedroom
Living Room
Kitche


10:25

Kitchen
1 device

Playing • 15%
Kitchen

Living Room
1 device

Living Room

Master Bedroom
1 device

Master Bedroom

Groups
2 groups

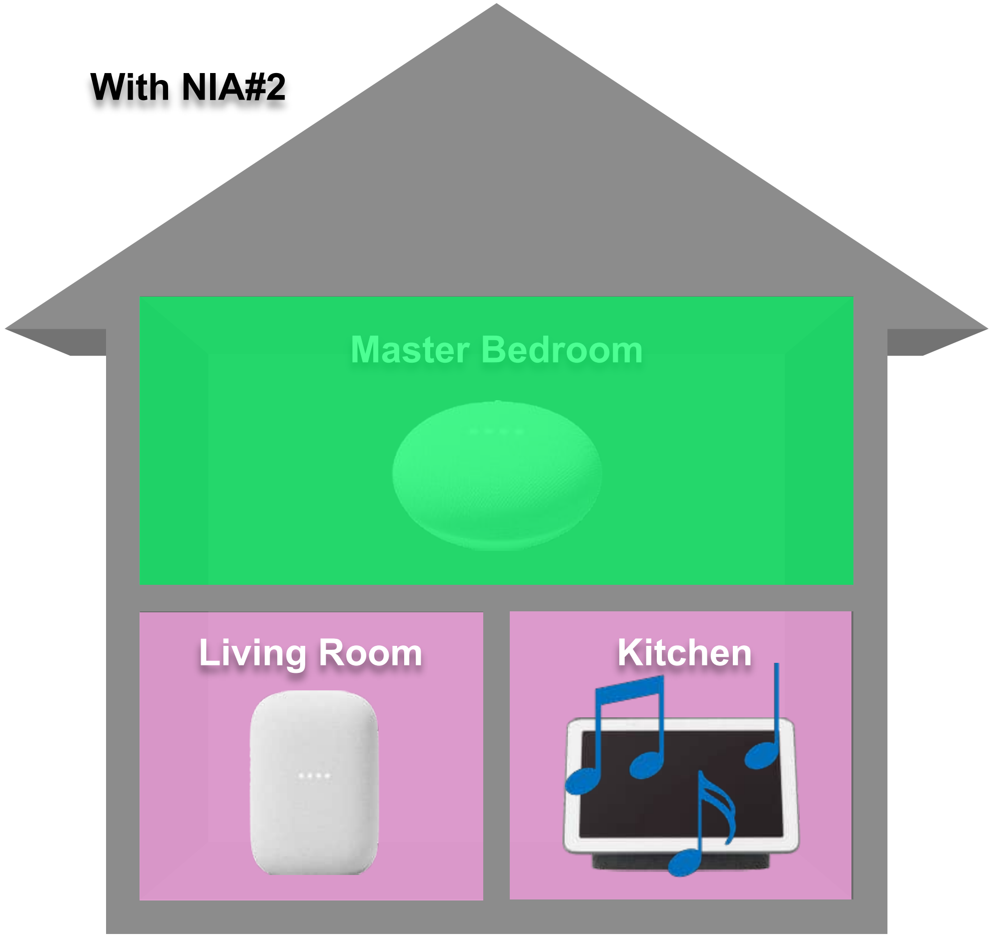
Evening

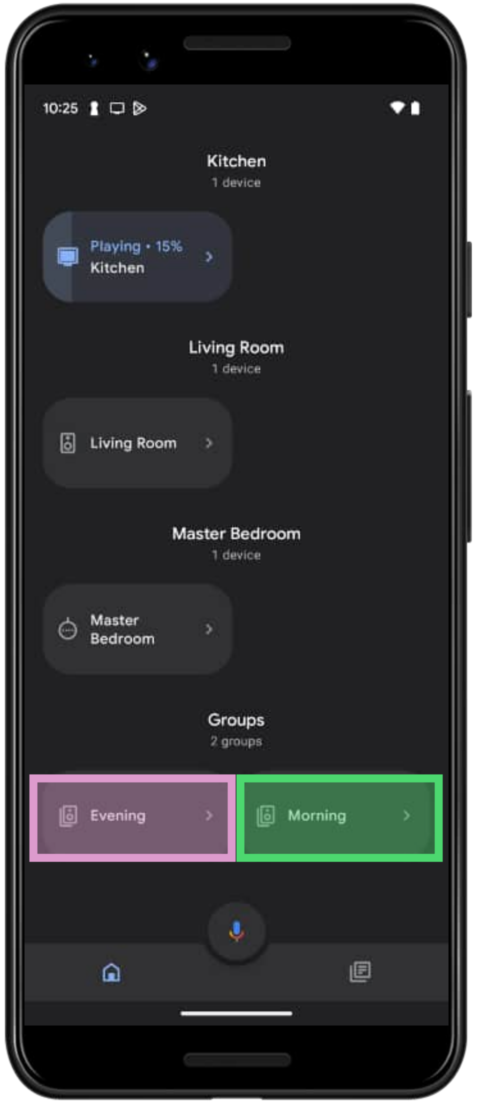
Morning

NIA #3: “No Overlapping Groups” is Not Commercially Acceptable

First Scenario – trying to create and save two different groups

With NIA#2




10:25

Kitchen
1 device

Playing • 15%
Kitchen

Living Room
1 device

Living Room

Master Bedroom
1 device

Master Bedroom

Groups
2 groups

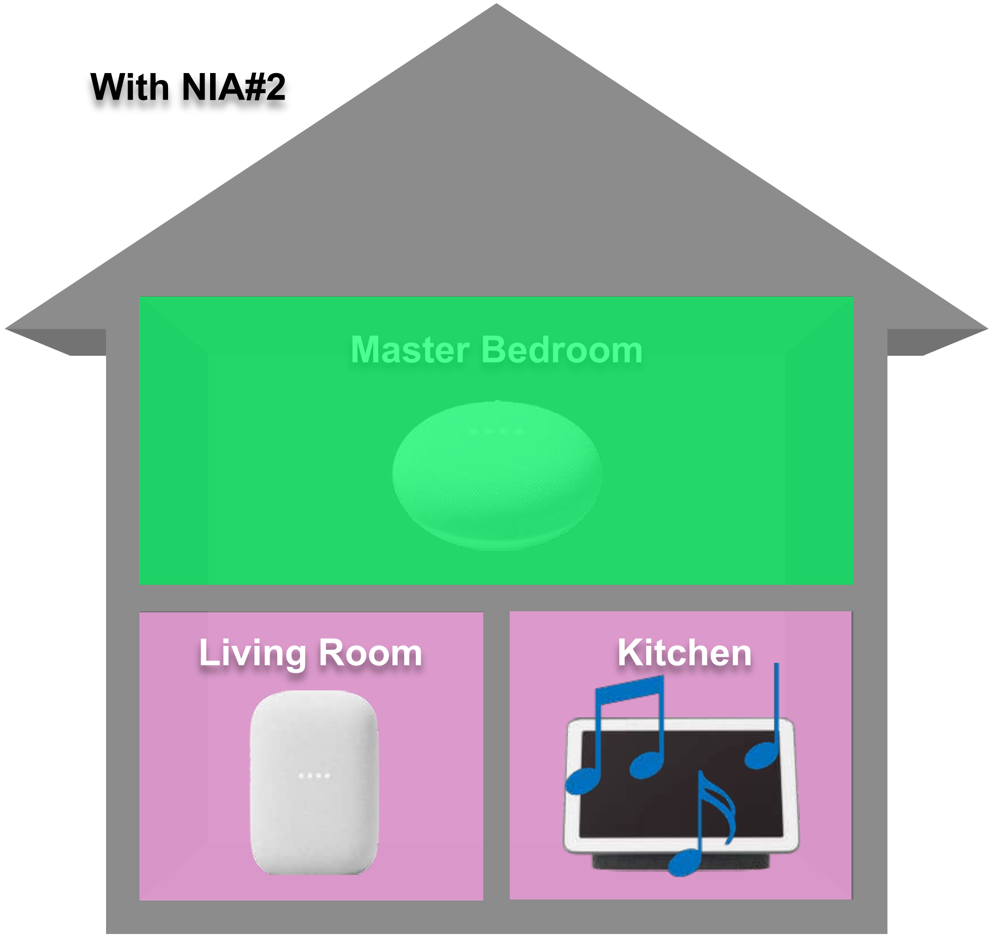
Evening

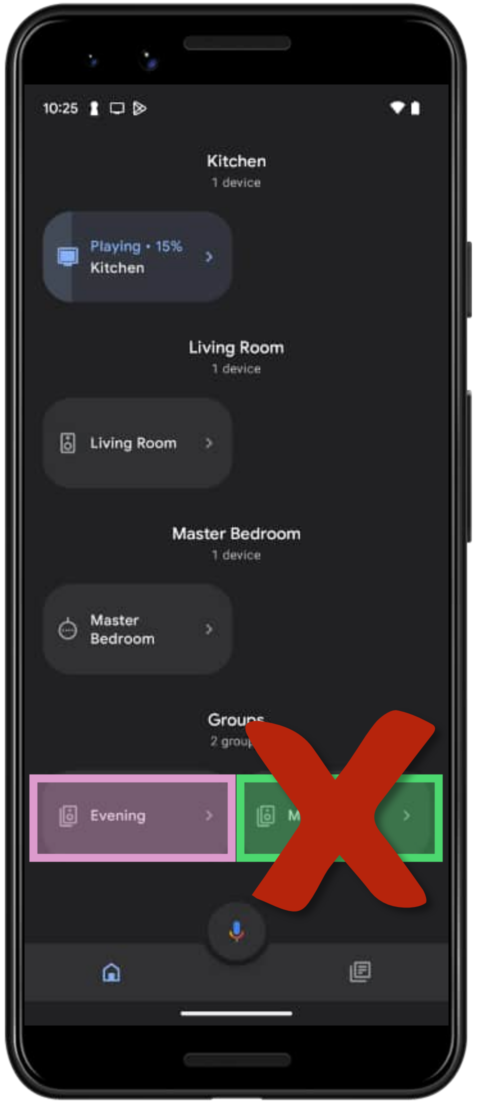
Morning

NIA #3: “No Overlapping Groups” is Not Commercially Acceptable

First Scenario – trying to create and save two different groups

With NIA#2

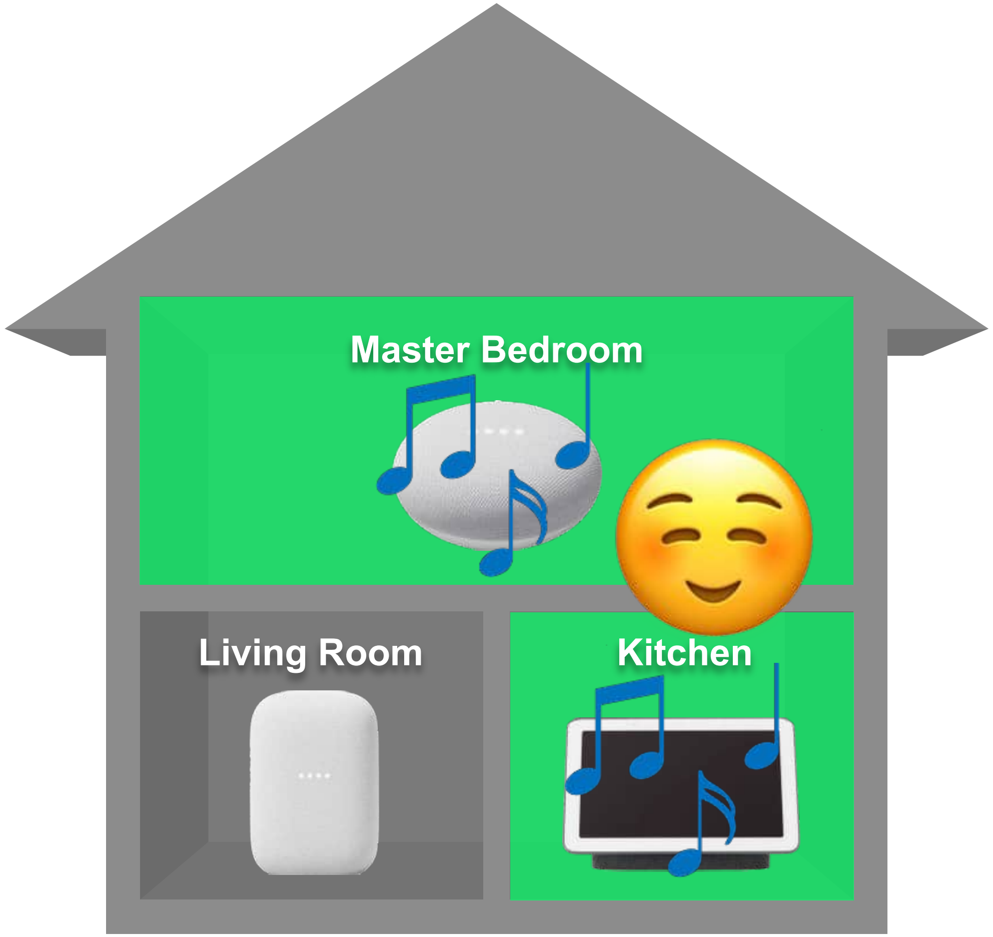

Master Bedroom
Living Room
Kitchen

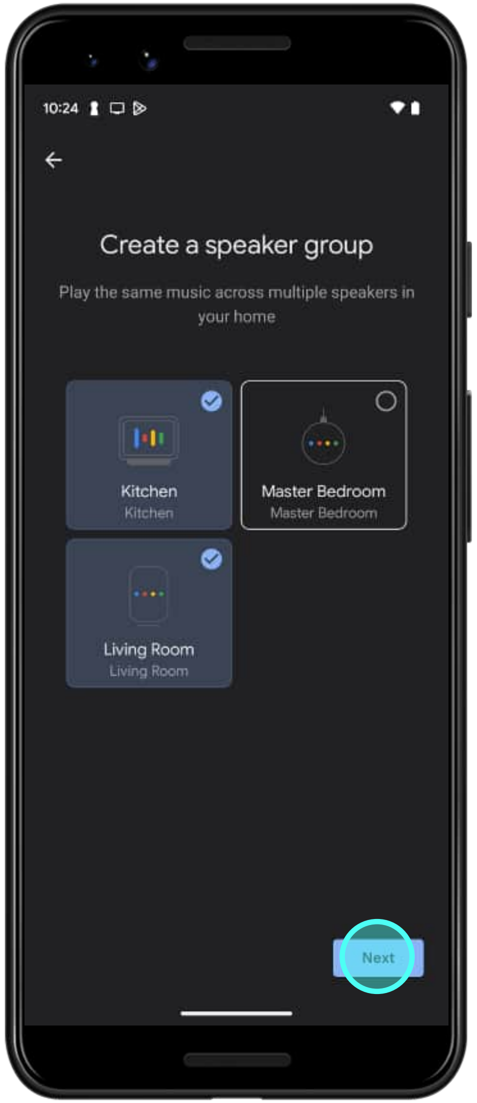

10:25
Kitchen
1 device
Playing • 15%
Kitchen
Living Room
1 device
Living Room
Master Bedroom
1 device
Master Bedroom
Groups
2 group
Evening
M

NIA #3: "No Overlapping Groups" is Not Commercially Acceptable

EXHIBIT A - FILED UNDER SEAL

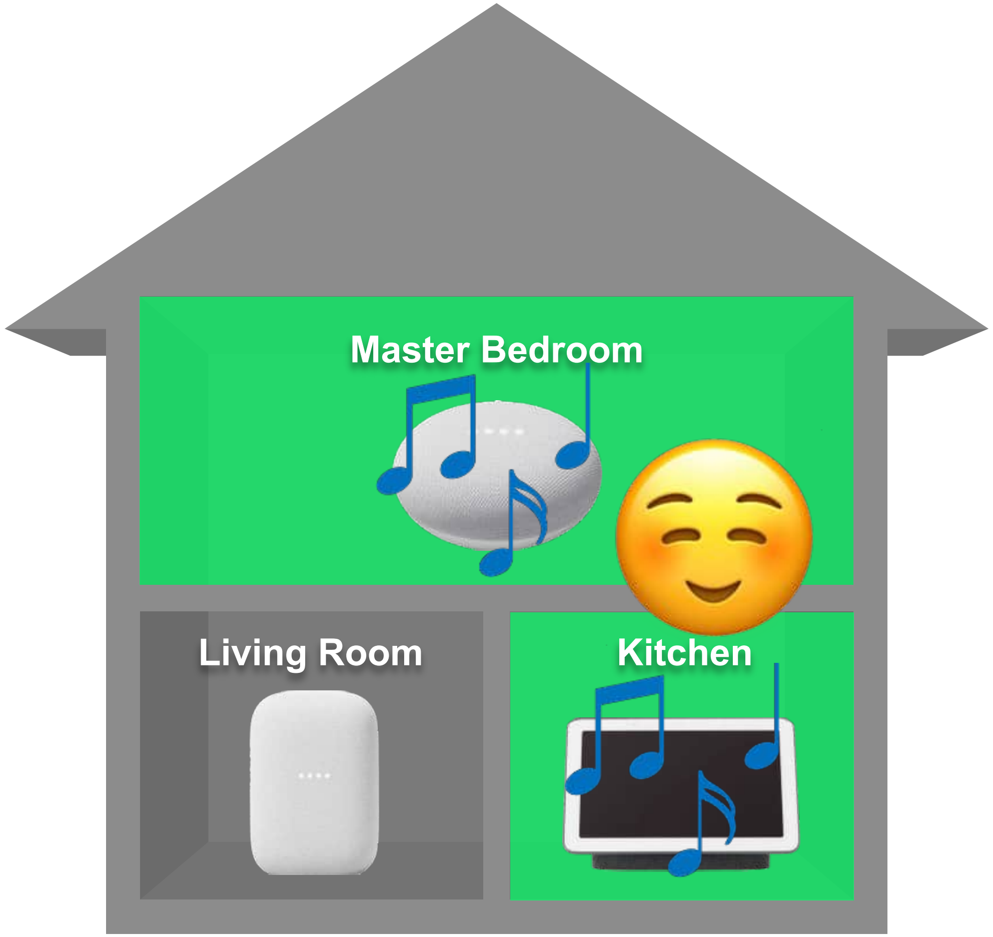
Second Scenario – trying to create a new group for future use while another person is enjoying music on a previously created group

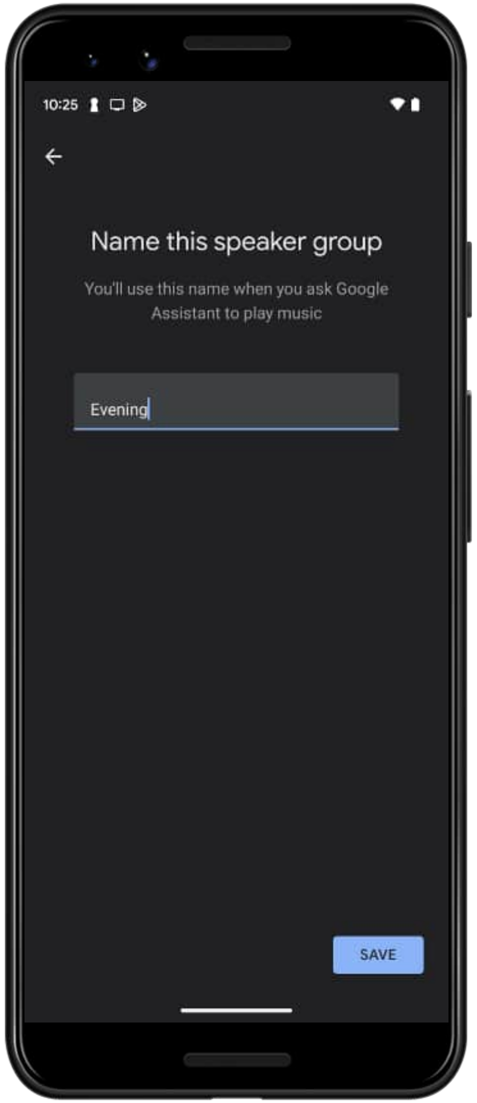

Master Bedroom
Living Room
Kitchen


10:24
Create a speaker group
Play the same music across multiple speakers in your home
Kitchen
Kitchen
Master Bedroom
Master Bedroom
Living Room
Living Room
Next

NIA #3: “No Overlapping Groups” is Not Commercially Acceptable

Second Scenario – trying to create a new group for future use while another person is enjoying music on a previously created group


Master Bedroom
Living Room
Kitchen



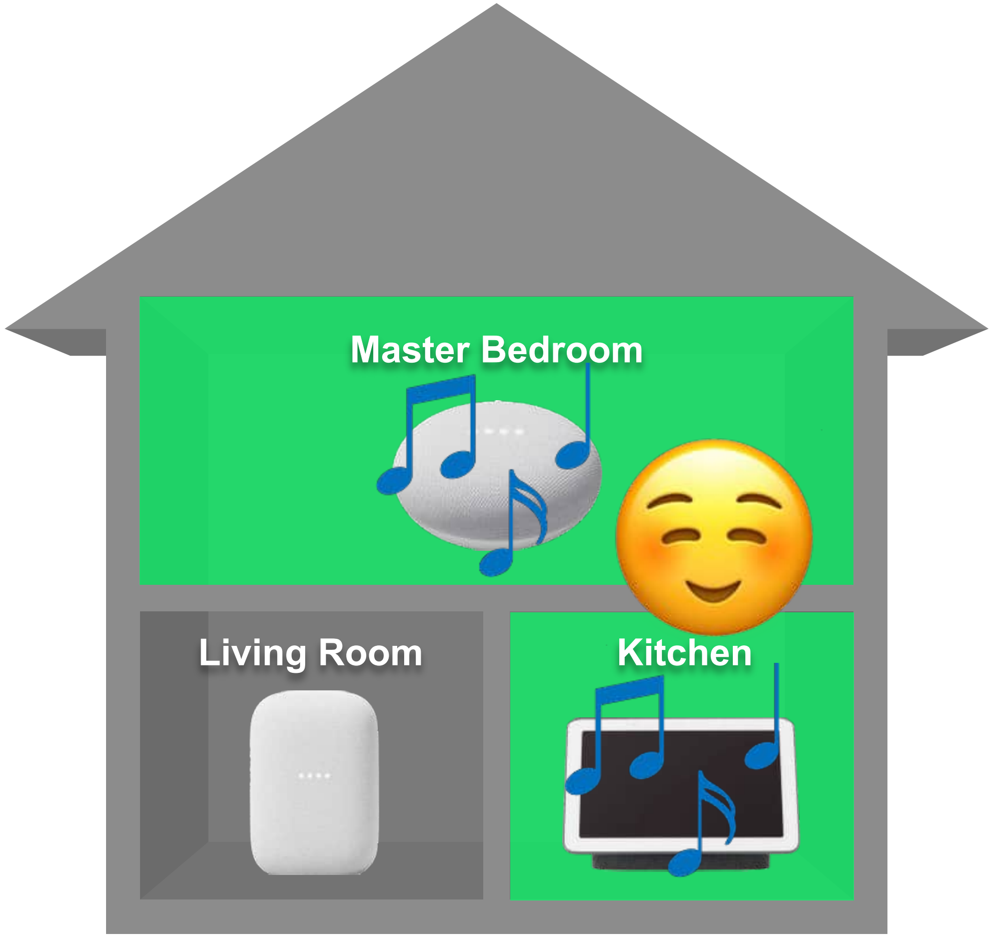
Name this speaker group

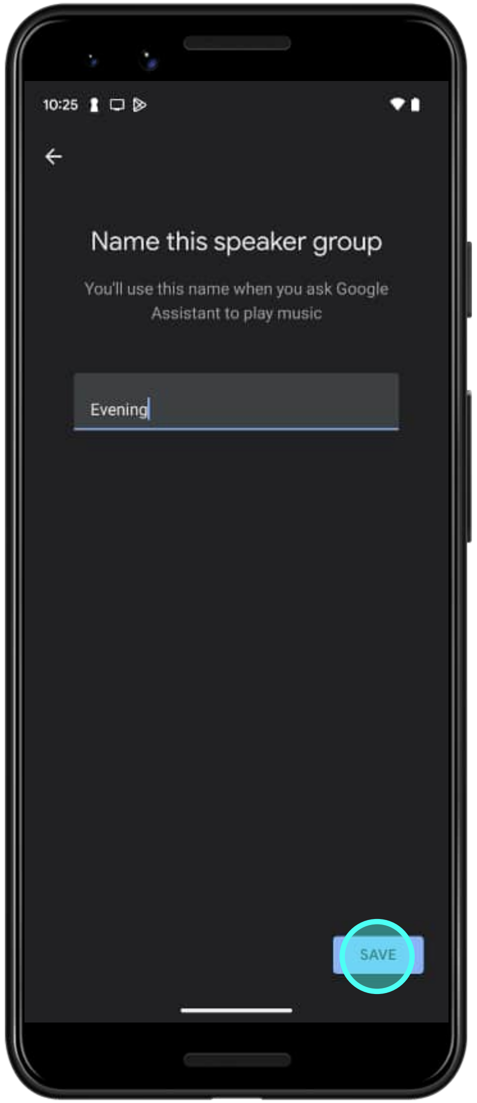
You'll use this name when you ask Google Assistant to play music

Evening

NIA #3: "No Overlapping Groups" is Not Commercially Acceptable

Second Scenario – trying to create a new group for future use while another person is enjoying music on a previously created group


Master Bedroom
Living Room
Kitchen



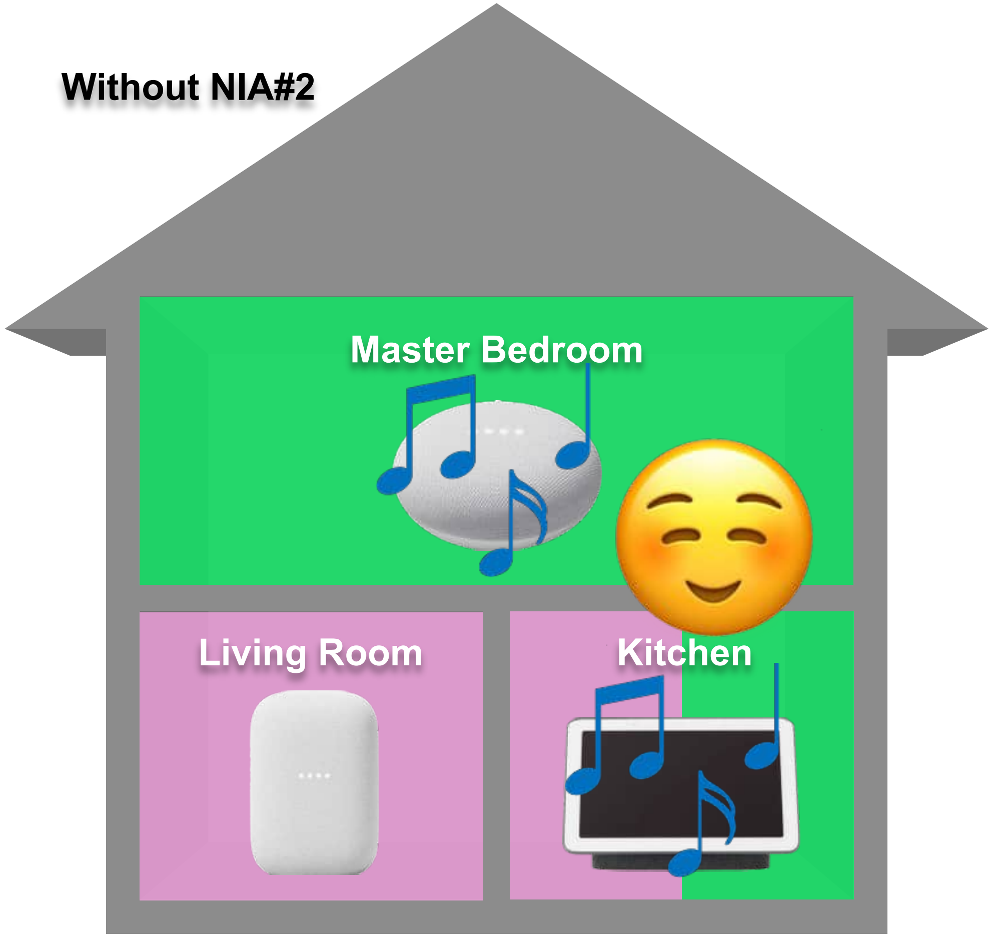
Name this speaker group

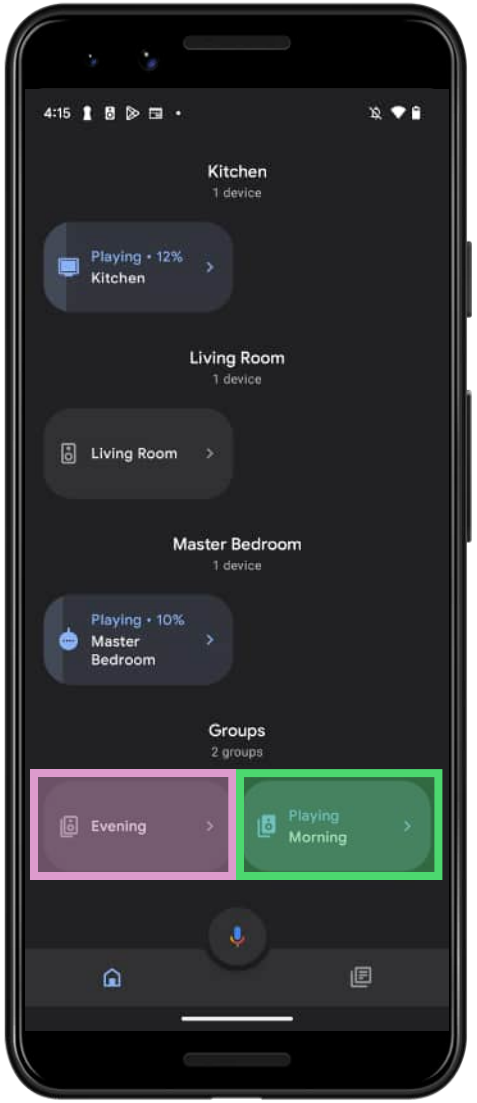
You'll use this name when you ask Google Assistant to play music

Evening

NIA #3: “No Overlapping Groups” is Not Commercially Acceptable

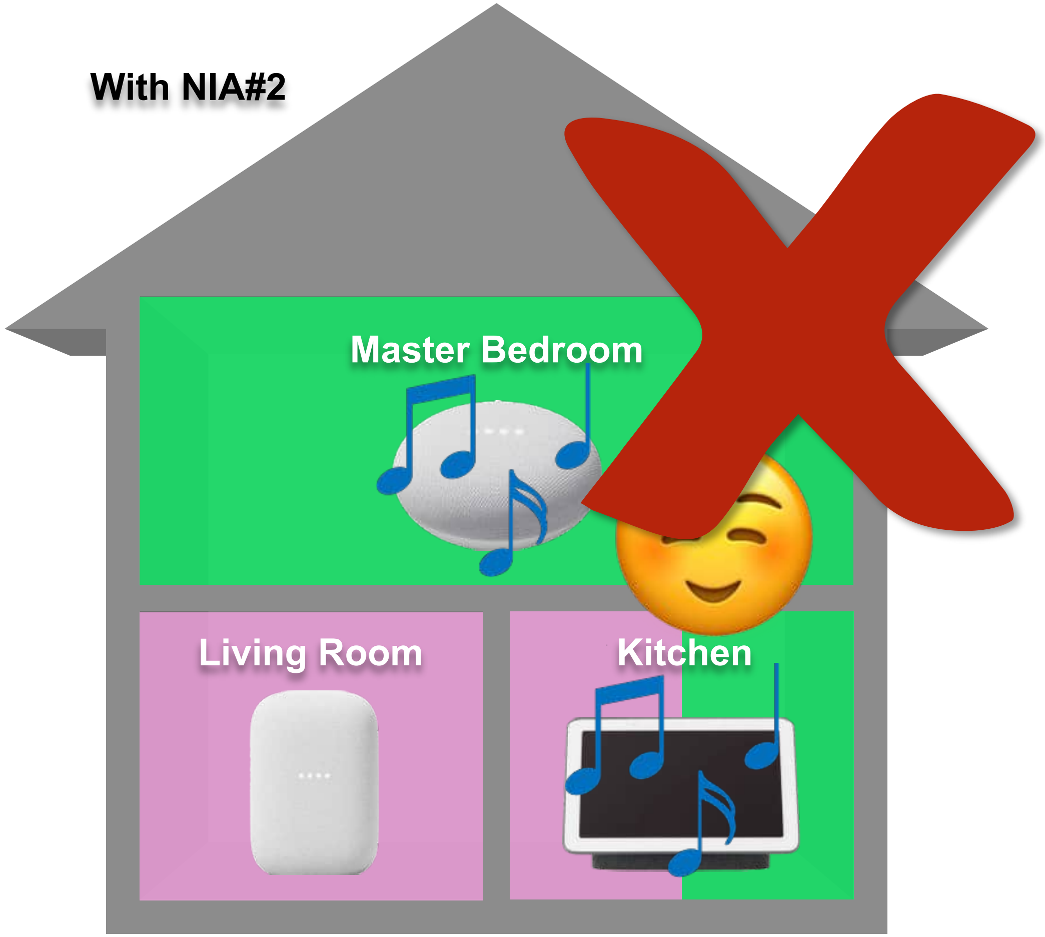
Second Scenario – trying to create a new group for future use while another person is enjoying music on a previously created group

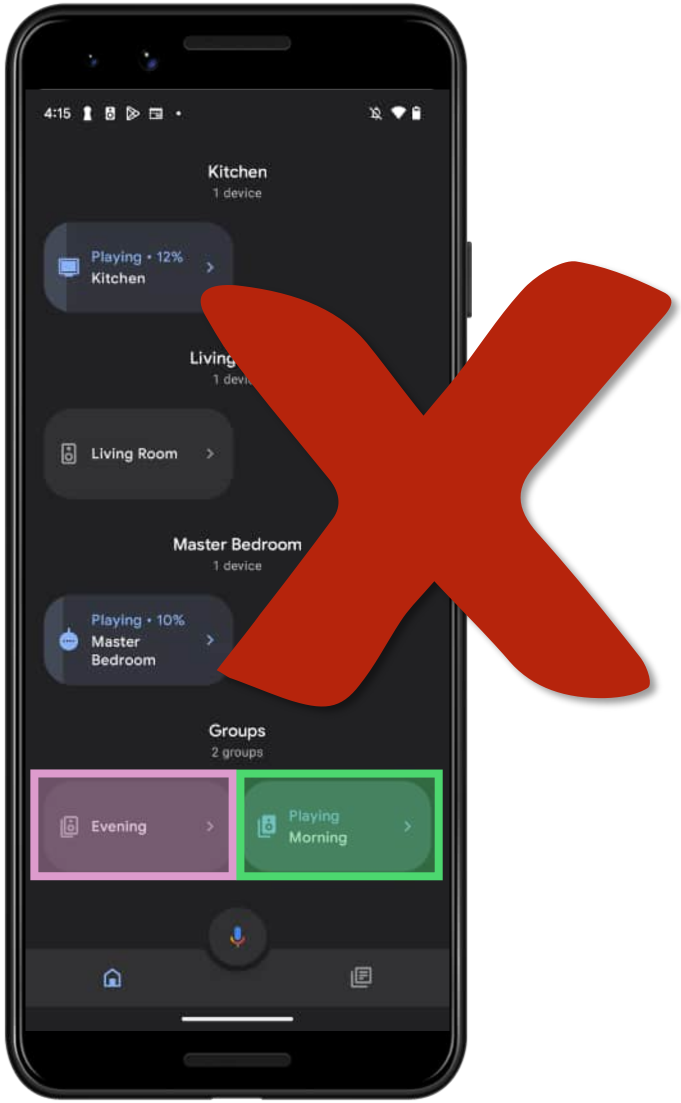

Without NIA#2
Master Bedroom
Living Room
Kitchen


4:15
Kitchen
1 device
Playing • 12%
Kitchen
Living Room
1 device
Living Room
Master Bedroom
1 device
Playing • 10%
Master Bedroom
Groups
2 groups
Evening
Playing
Morning

NIA #3: “No Overlapping Groups” is Not Commercially Acceptable

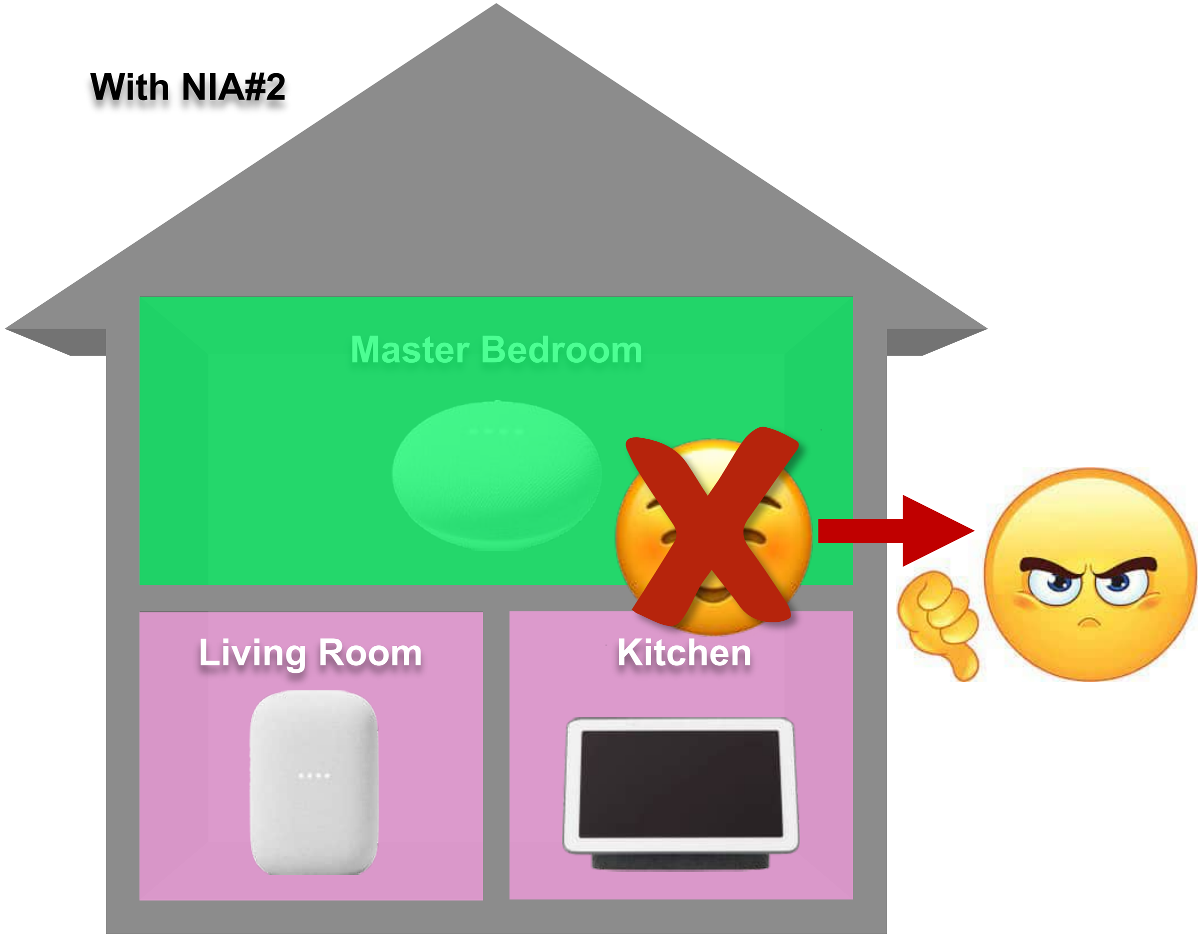
Second Scenario – trying to create a new group for future use while another person is enjoying music on a previously created group

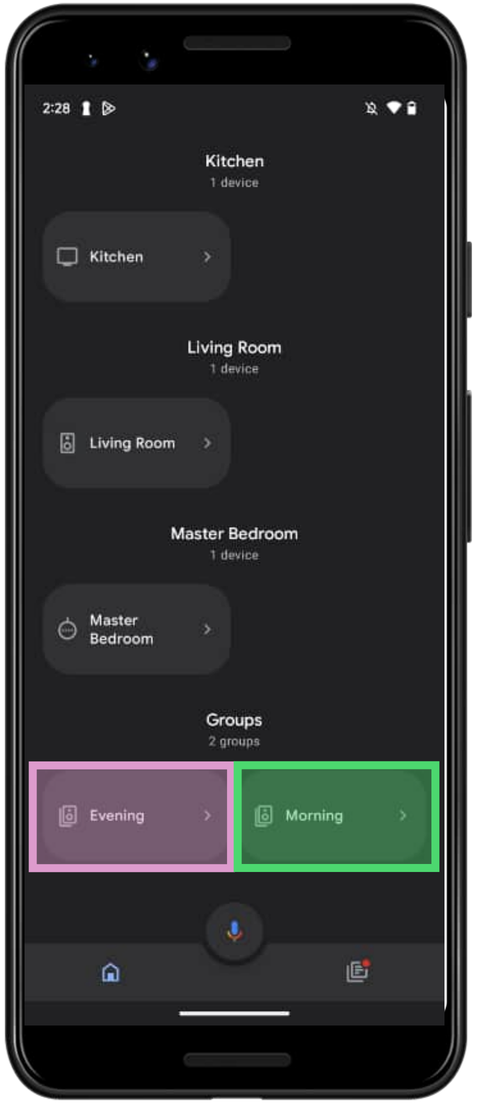

With NIA#2
Master Bedroom
Living Room
Kitchen


4:15
Kitchen
1 device
Playing • 12%
Kitchen
Living
1 devi
Living Room
Master Bedroom
1 device
Playing • 10%
Master Bedroom
Groups
2 groups
Evening
Playing
Morning

NIA #3: “No Overlapping Groups” is Not Commercially Acceptable

Second Scenario – trying to create a new group for future use while another person is enjoying music on a previously created group


With NIA#2
Master Bedroom
Living Room
Kitchen



Kitchen
1 device

Kitchen

Living Room
1 device

Living Room

Master Bedroom
1 device

Master Bedroom

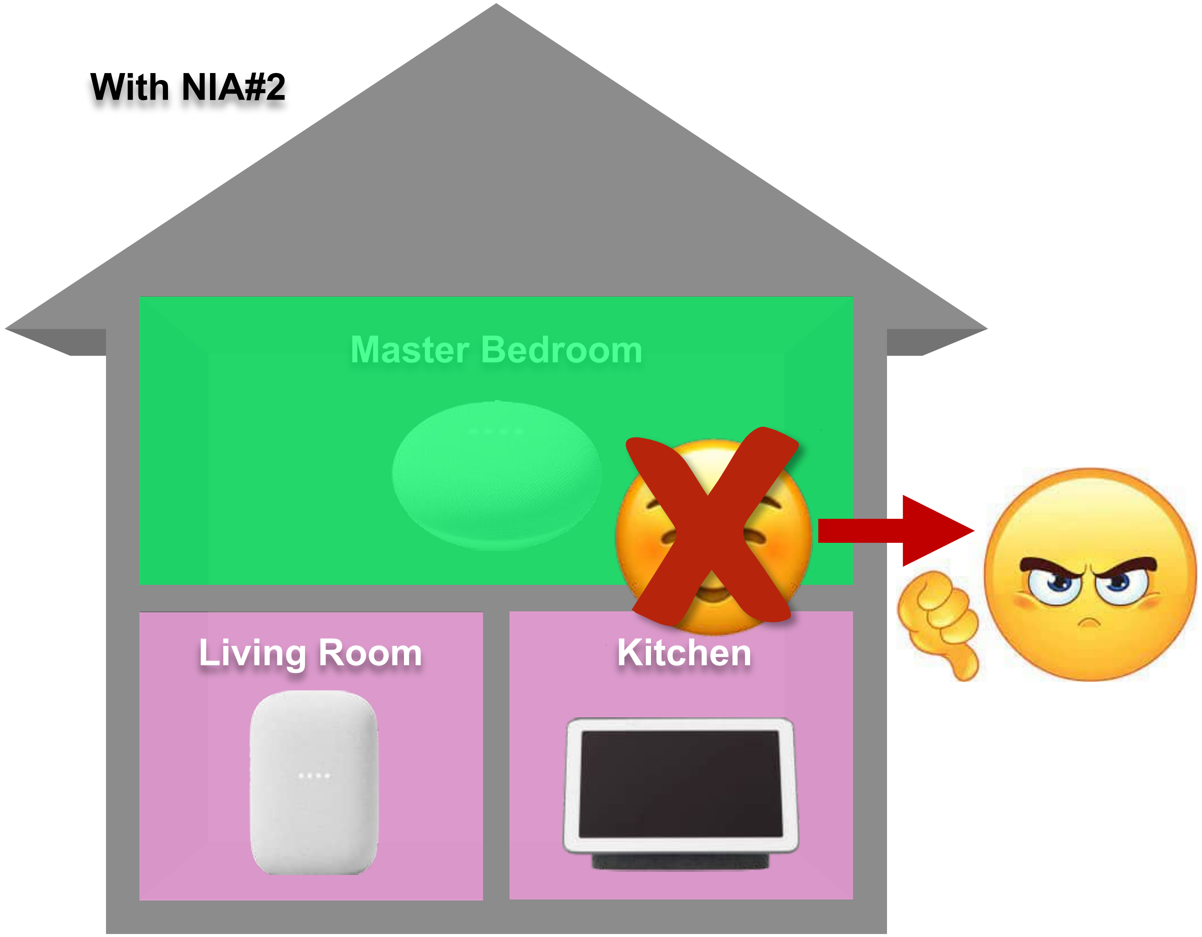
Groups
2 groups

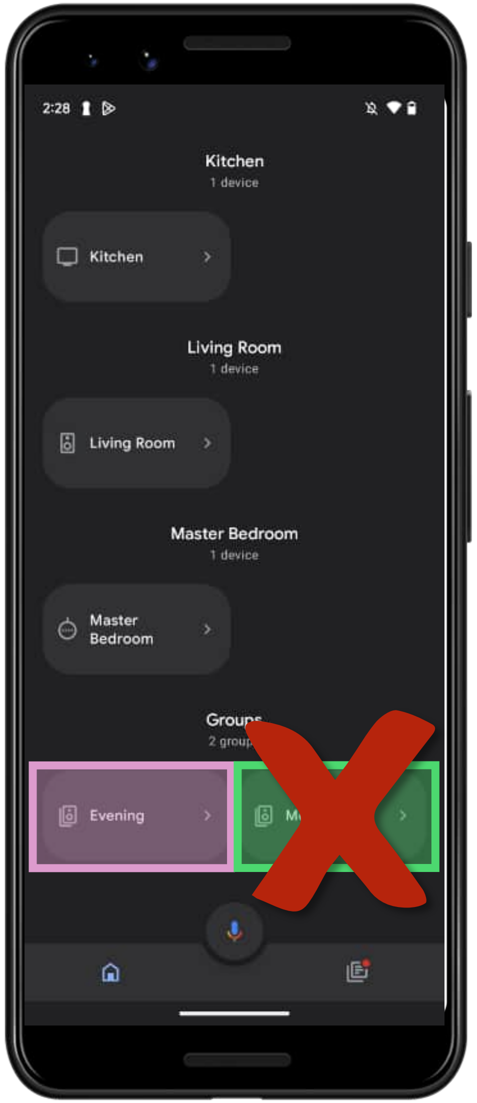
Evening

Morning

NIA #3: “No Overlapping Groups” is Not Commercially Acceptable

Second Scenario – trying to create a new group for future use while another person is enjoying music on a previously created group


With NIA#2
Master Bedroom
Living Room
Kitchen

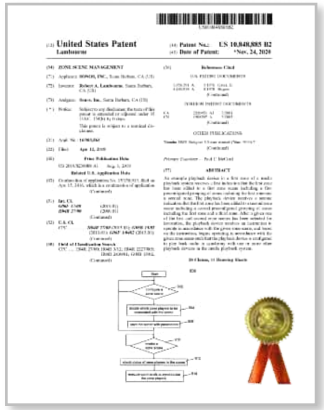

2:28
Kitchen
1 device
Kitchen
Living Room
1 device
Living Room
Master Bedroom
1 device
Master Bedroom
Groups
2 group
Evening
M

Sonos’s Use of the ’885 Patent

Assignment – Sonos's Use of '885 Patent

Asserted Claim	Sonos Products	Practice?
Claim 1 of **US 10,848,885**		**?**

Methodology – Sonos's Use of '885 Patent



Sonos Patent Documents

- US 10,848,885
- File History
- Claim Construction Material

Sonos Documents

- Customer-Facing Literature
- Internal Documents

Sworn Testimony & Admissions

- Sonos's First Supplemental Response to Google's Interrogatory No. 13
- Sonos's Second Supplemental Response to Google's Interrogatory No. 13

Sonos Product Operation

- Testing and Use
- Sonos's Technology Tutorial
- Discussions with Nick Millington, Sonos Chief Innovation Officer

Conclusion – Sonos's Use of '885 Patent

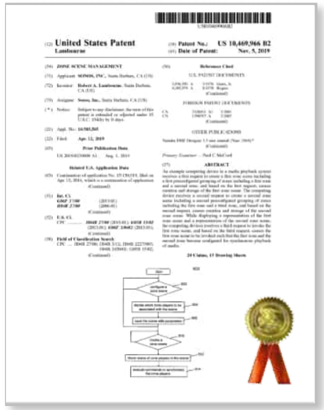
Asserted Claim	Sonos Products	Practice?
Claim 1 of US 10,848,885		✓

Sonos’s Use of the ’966 Patent

Assignment – Sonos's Use of '966 Patent

Asserted Claim	Third Party Device with Sonos App	Practice?
Claims 1, 2, 4, 6, 8, 9, 10, 12, 14, 16 of US 10,469,966		?

Assignment – Sonos's Use of '966 Patent



Sonos Patent Documents

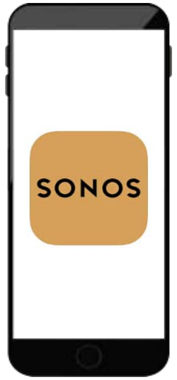
- US 10,469,966
- File History
- Claim Construction Material

Sonos Documents

- Customer-Facing Literature
- Internal Documents

Sworn Testimony & Admissions

- Sonos's First Supplemental Response to Google's Interrogatory No. 13
- Sonos's Second Supplemental Response to Google's Interrogatory No. 13



Sonos Product Operation

- Testing and Use
- Sonos's Technology Tutorial
- Discussions with Nick Millington, Sonos Chief Innovation Officer

EXHIBIT A - FILED UNDER SEAL

Assignment – Sonos's Use of '966 Patent

Asserted Claim	Third Party Device with Sonos App	Practice?
Claims 1, 2, 4, 6, 8, 9, 10, 12, 14, 16 of US 10,469,966		✓

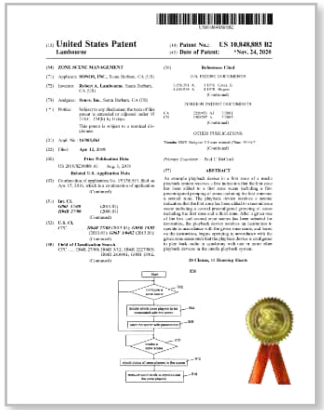
EXHIBIT A - FILED UNDER SEAL

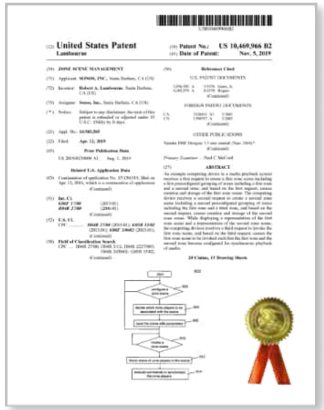
Comparability of IFTTT Applets

Assignment – Comparability of IFTTT Applets

Asserted Claim	IFTTT Applets	Comparable?
Claim 1 of **US 10,848,885**		?
Claims 1, 2, 4, 6, 8, 9, 10, 12, 14, 16 of **US 10,469,966**		?

Assignment – Comparability of IFTTT Applets





Sonos Patent Documents

- US 10,848,885
- US 10,469,966
- File Histories
- Claim Construction Material

IFTTT Documents

- Customer-Facing Literature

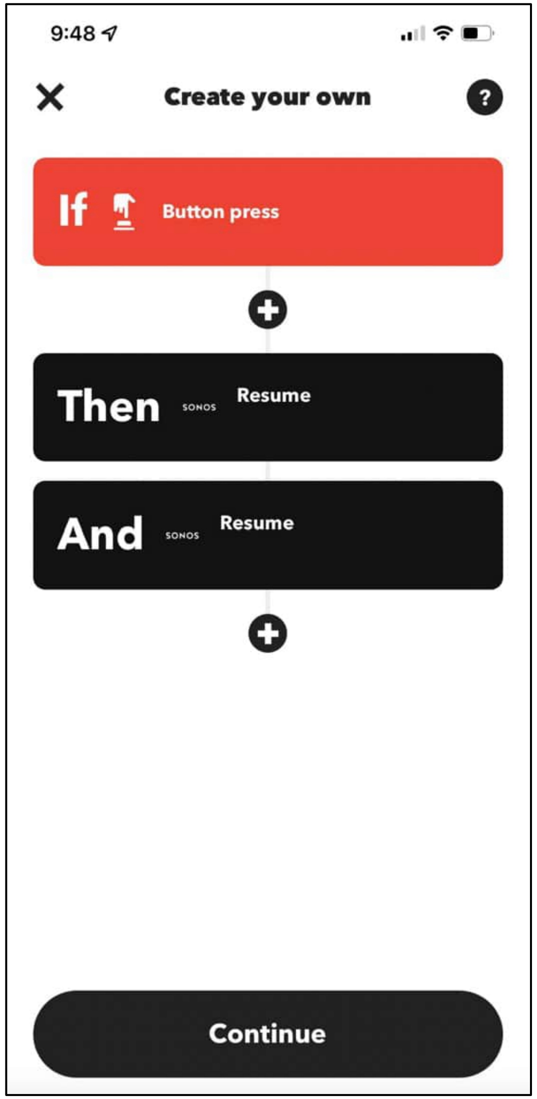
Create your own
If
Button press
Then
Start playback
And
Resume
Continue

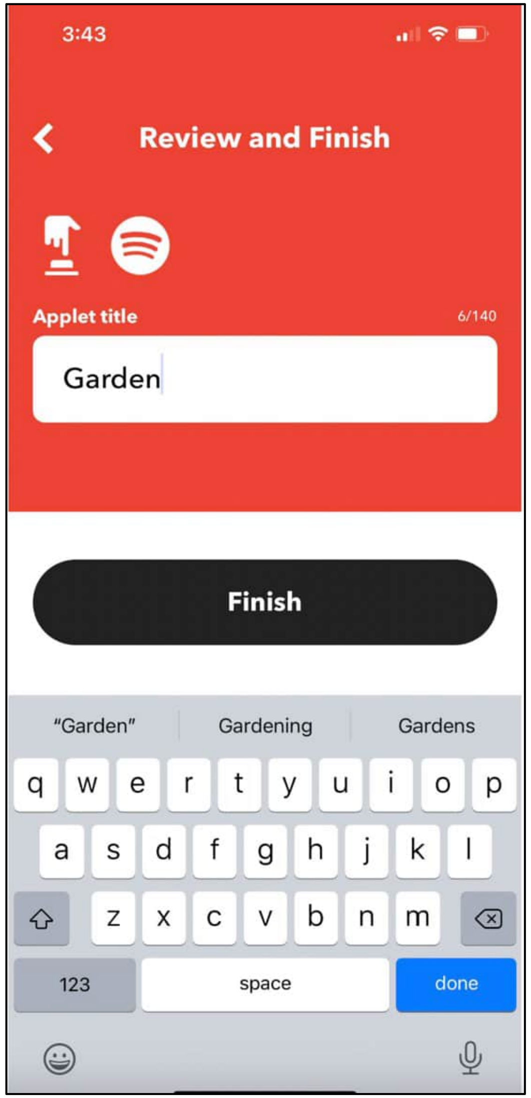
Create your own
If
Button press
Then
Resume
And
Resume
Continue

IFTTT Applet Operation

- Testing and Use

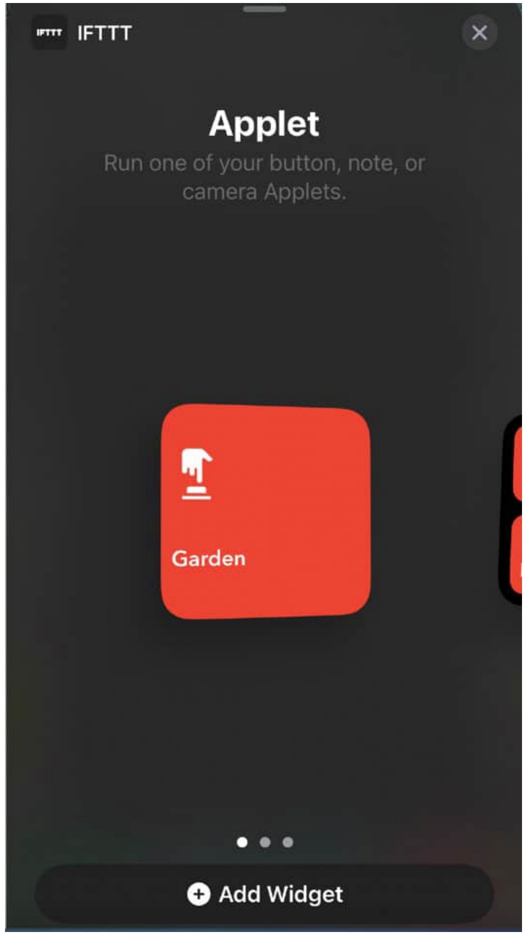
Assignment – Comparability of IFTTT Applets


9:48
Create your own
If
Button press
Then
SONOS
Resume
And
SONOS
Resume
Continue

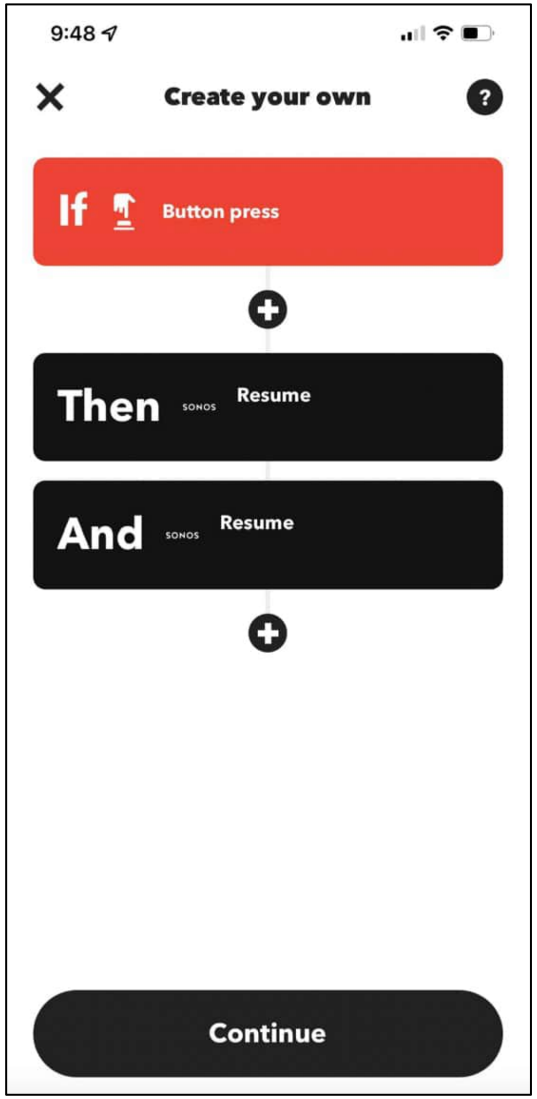

3:43
Review and Finish
Finish
"Garden"
Gardening
Gardens
q w e r t y u i o p
a s d f g h j k l
z x c v b n m
123
space
done

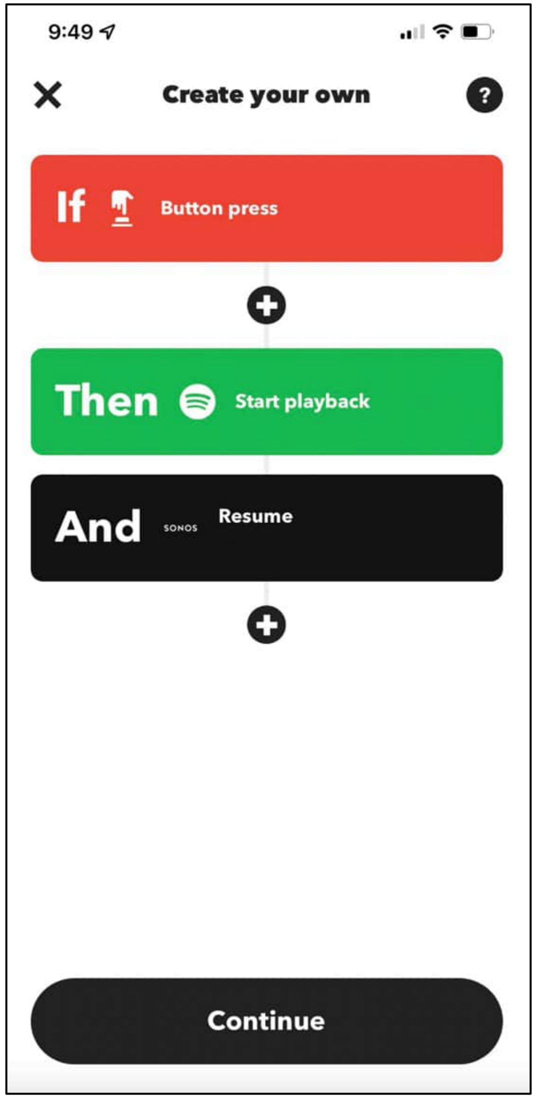
Applet title 6/140

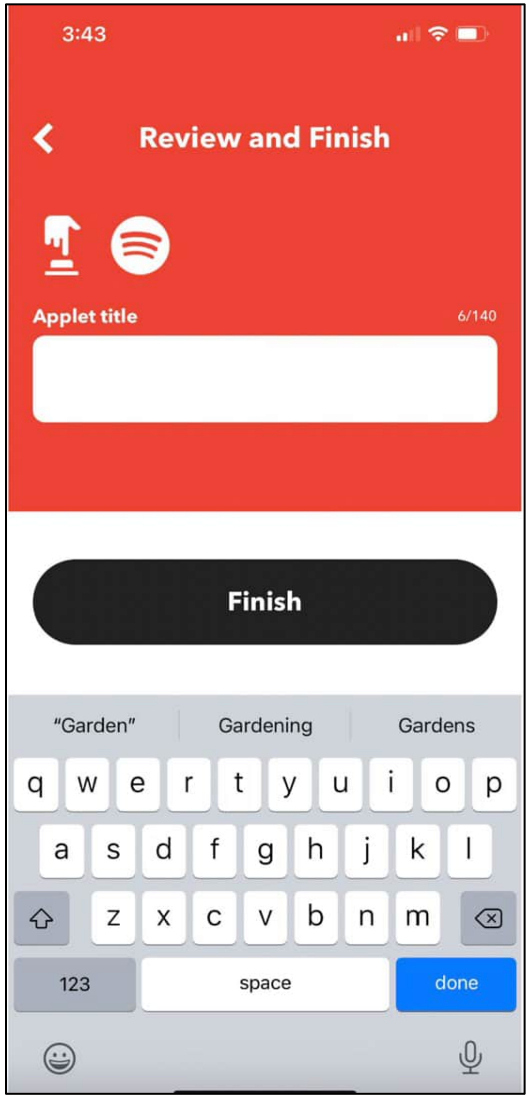
Garden


IFTTT
Applet
Run one of your button, note, or camera Applets.
Garden
Add Widget

Assignment – Comparability of IFTTT Applets


9:48
Create your own
?
If
Button press
Then
SONOS
Resume
And
SONOS
Resume
Continue


9:49
Create your own
?
If
Button press
Then
Start playback
And
SONOS
Resume
Continue


3:43
Review and Finish
Applet title
6/140
Finish
"Garden"
Gardening
Gardens
q w e r t y u i o p
a s d f g h j k l
z x c v b n m
123
space
done

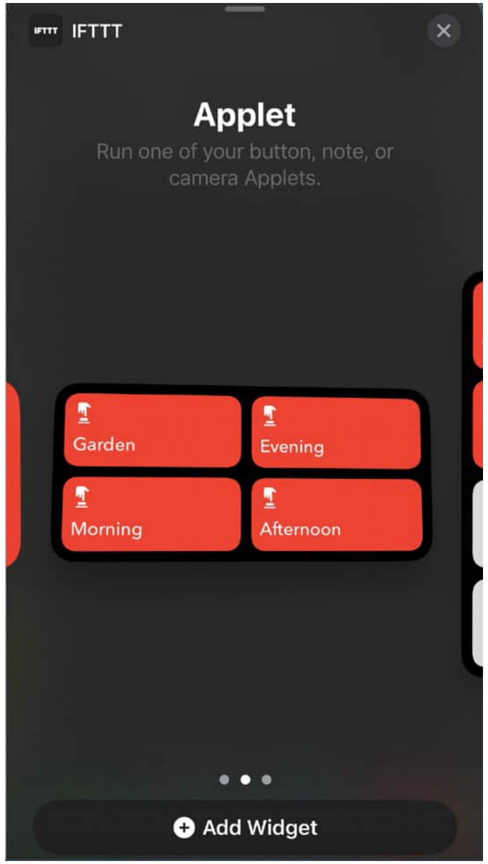

IFTTT
Applet
Run one of your button, note, or camera Applets.
Garden
Evening
Morning
Afternoon
Add Widget

EXHIBIT A - FILED UNDER SEAL

Conclusion – Comparability of IFTTT Applets

Asserted Claim	IFTTT Applets	Comparable?
Claim 1 of US 10,848,885		✓
Claims 1, 2, 4, 6, 8, 9, 10, 12, 14, 16 of US 10,469,966		✓

Case No. 3:20-cv-06754-WHA
Related to Case No. 3:21-cv-07559-WHA

Sonos v. Google

Dr. Kevin Almeroth

July 27, 2022

Qualifications

Academic Appointments

Professor, Dept. of Computer Science
UC Santa Barbara (1997-2020)

Vice Chair, Dept. of Computer Science
UC Santa Barbara (2001-2005)

Associate Dean, College of Engineering
UC Santa Barbara (2007-2009)

Education

Georgia Institute of Technology

Ph.D. Computer Science	*1997*
M.S. Computer Science	*1994*
B.S. Computer Science	*1992*

Research Experience

25+ years of experience as a computer networking researcher

Approximately 200 peer-reviewed publications

19 released software systems

Qualifications

Relevant Experience

UCSB

Research themes include:

- Streaming media in the Internet
- Delivery of multimedia content between computing devices
- Wireless networking

IETF

Active in Internet Engineering Task Force (IETF) for 20+ years:

- Developed standards to support multimedia data delivery
- Developed standards to support network monitoring & management

Industry Collaborations

HITACHI
OCCAM NETWORKS
IBM
hp
intel
DF Digital Fountain
real
LOCKHEED MARTIN
U.S. AIR FORCE
S:1
Redback NETWORKS
JUNIPER NETWORKS
CISCO

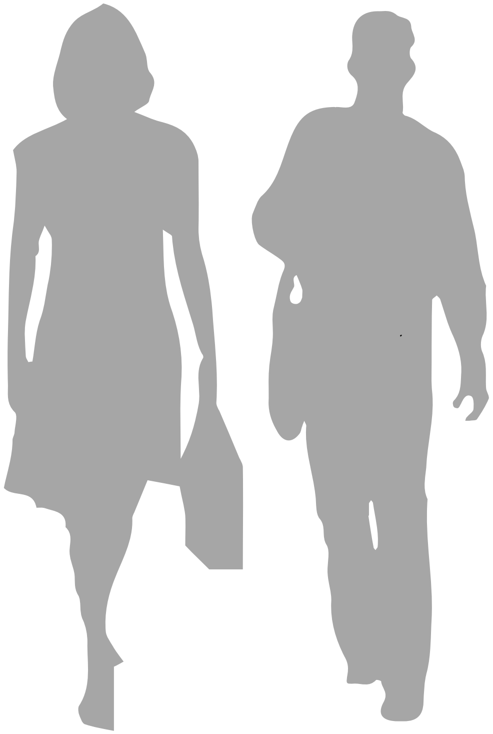
Awards & Honors

- **Numerous teaching awards**
- **Numerous honors and awards for original research**

IEEE

- **Recognized as IEEE Fellow**

Person of Ordinary Skill in the Art



- Bachelor’s Degree in Computer Science, Computer Engineering, Electrical Engineering, or the equivalent

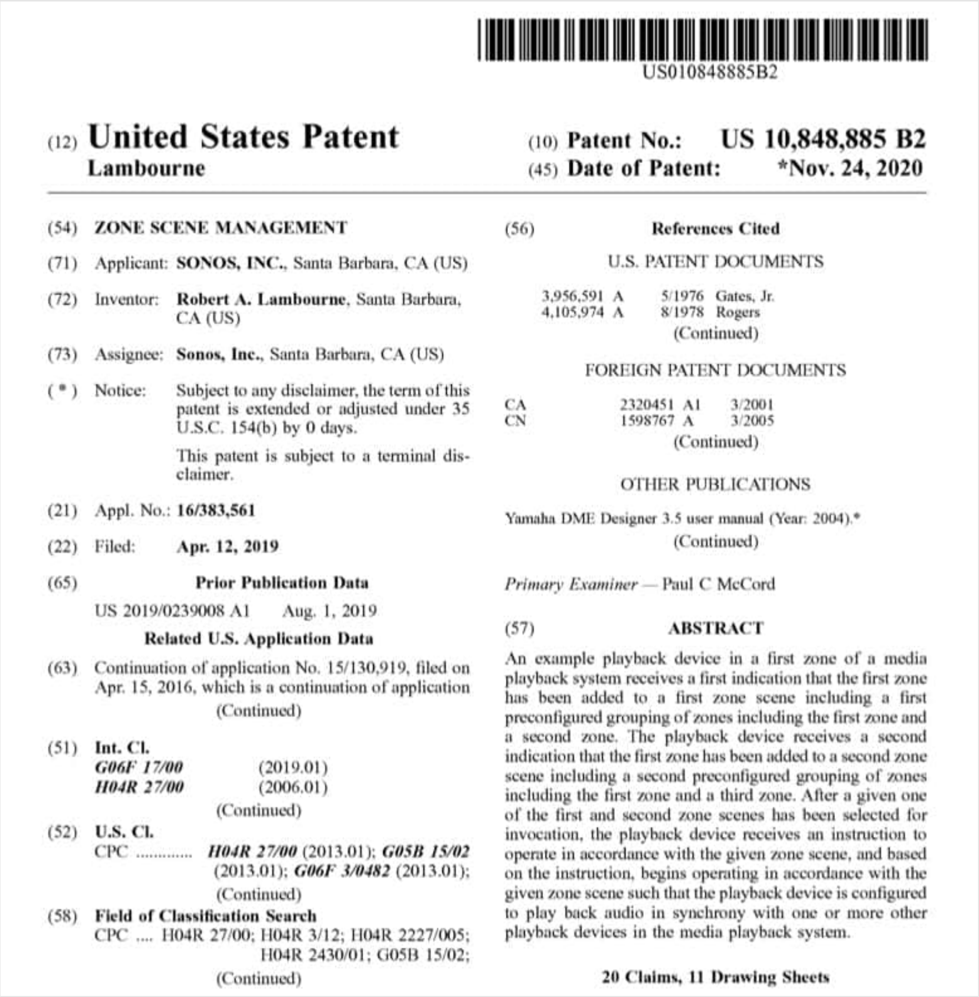
+

- 2-4 years of work experience in the fields of networking and network-based systems or applications, such as consumer audio systems, or an equivalent level of skill, knowledge, and experience

Parties' Proposed Claim Constructions

Claim Term	Sonos	Google
"zone player"	Same as "playback device" "a data network device configured to process and output audio"	Same as "playback device" Plain and ordinary meaning, no construction necessary
"data network"	Plain and ordinary meaning, which is "a medium that interconnects devices, enabling them to send digital data packets to and receive digital data packets from each other"	Plain and ordinary meaning, no construction necessary
"network interface"	Plain and ordinary meaning, which is "a physical component of a device that provides an interconnection with a data network"	Plain and ordinary meaning, no construction necessary
"zone scene"	"a previously-saved grouping of zone players that are to be configured for synchronous playback of media when the zone scene is invoked"	"a previously saved grouping of zone players according to a common theme"

Assignment – Validity of ’885 Patent



US010848885B2

(12) **United States Patent**
Lambourne

(10) **Patent No.: US 10,848,885 B2**
(45) **Date of Patent: *Nov. 24, 2020**

(54) **ZONE SCENE MANAGEMENT**

(71) Applicant: **SONOS, INC.**, Santa Barbara, CA (US)

(72) Inventor: **Robert A. Lambourne**, Santa Barbara, CA (US)

(73) Assignee: **Sonos, Inc.**, Santa Barbara, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **16/383,561**

(22) Filed: **Apr. 12, 2019**

(65) **Prior Publication Data**

US 2019/0239008 A1 Aug. 1, 2019

Related U.S. Application Data

(63) Continuation of application No. 15/130,919, filed on Apr. 15, 2016, which is a continuation of application
(Continued)

(51) **Int. Cl.**

G06F 17/00	(2019.01)
H04R 27/00	(2006.01)

(Continued)

(52) **U.S. Cl.**
CPC ***H04R 27/00*** (2013.01); ***G05B 15/02*** (2013.01); ***G06F 3/0482*** (2013.01);
(Continued)

(58) **Field of Classification Search**
CPC H04R 27/00; H04R 3/12; H04R 2227/005; H04R 2430/01; G05B 15/02;
(Continued)

(56) **References Cited**

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(Continued)

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(Continued)

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Yamaha DME Designer 3.5 user manual (Year: 2004).*
(Continued)

Primary Examiner — Paul C McCord

(57) **ABSTRACT**

An example playback device in a first zone of a media playback system receives a first indication that the first zone has been added to a first zone scene including a first preconfigured grouping of zones including the first zone and a second zone. The playback device receives a second indication that the first zone has been added to a second zone scene including a second preconfigured grouping of zones including the first zone and a third zone. After a given one of the first and second zone scenes has been selected for invocation, the playback device receives an instruction to operate in accordance with the given zone scene, and based on the instruction, begins operating in accordance with the given zone scene such that the playback device is configured to play back audio in synchrony with one or more other playback devices in the media playback system.

20 Claims, 11 Drawing Sheets

“Zone Scene” Grouping Involves Two Separate and Distinct Phases

[1.0] A first zone player comprising:

…

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

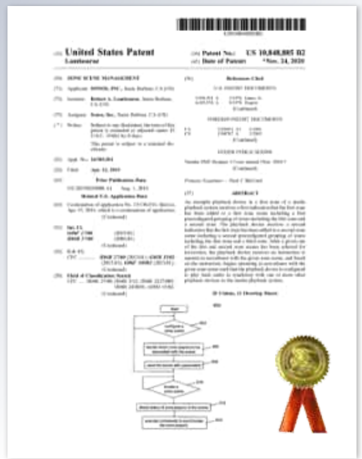
Setup Phase

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Invocation Phase

"Zone Scene" Grouping Involves Two Separate and Distinct Phases



US 10,848,'885, Claim 1

1. A first zone player comprising:

. . .

while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

(i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

(ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

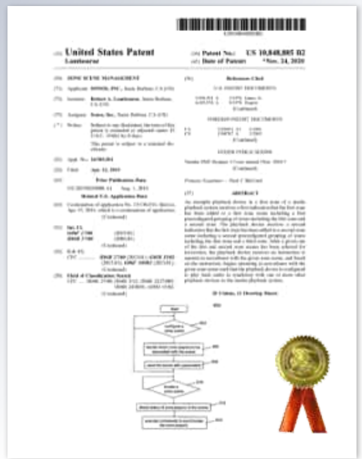
Setup Phase

after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

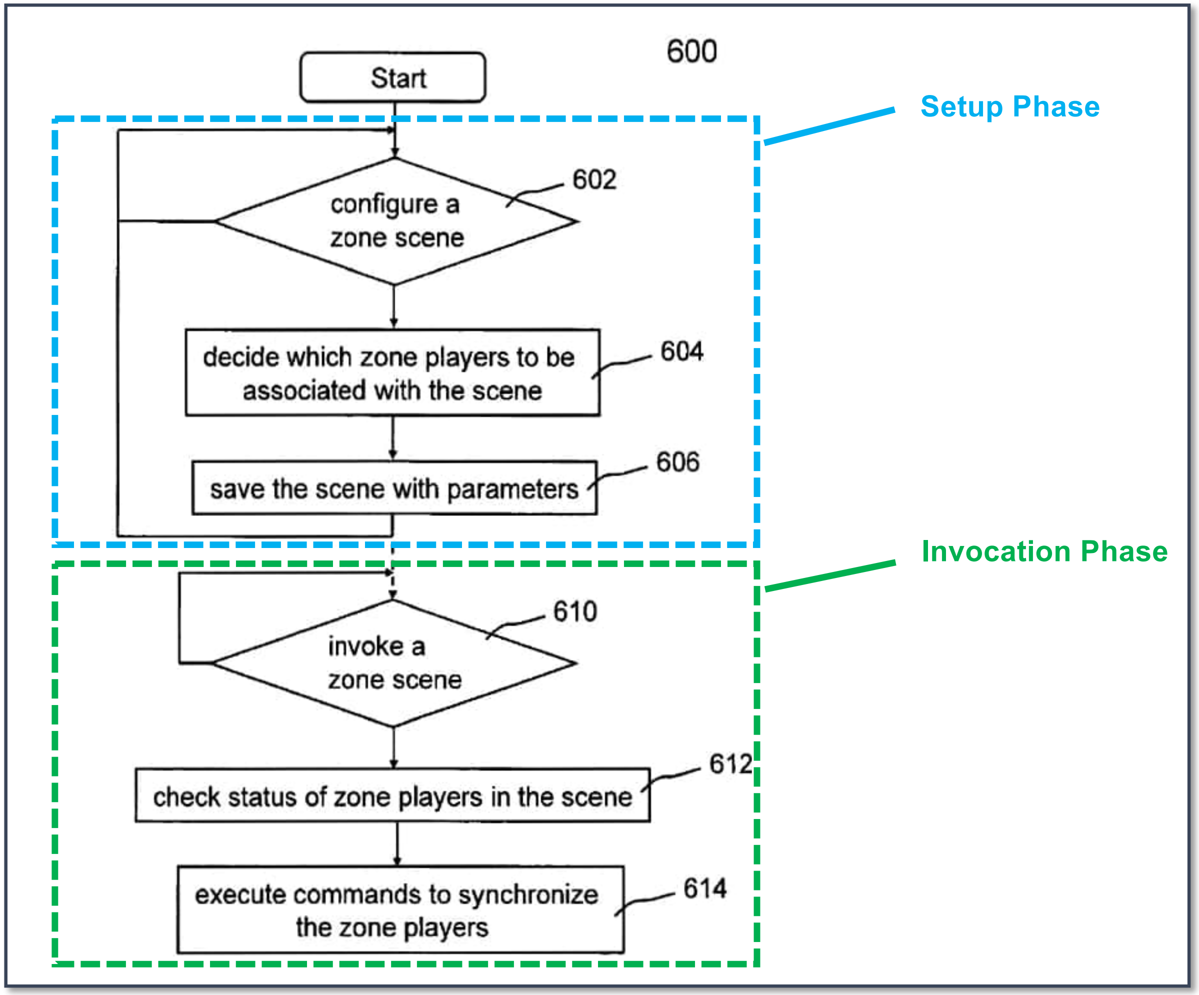
based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

Invocation Phase

“Zone Scene” Grouping Involves Two Separate and Distinct Phases



US 10,848,’885, Fig. 6

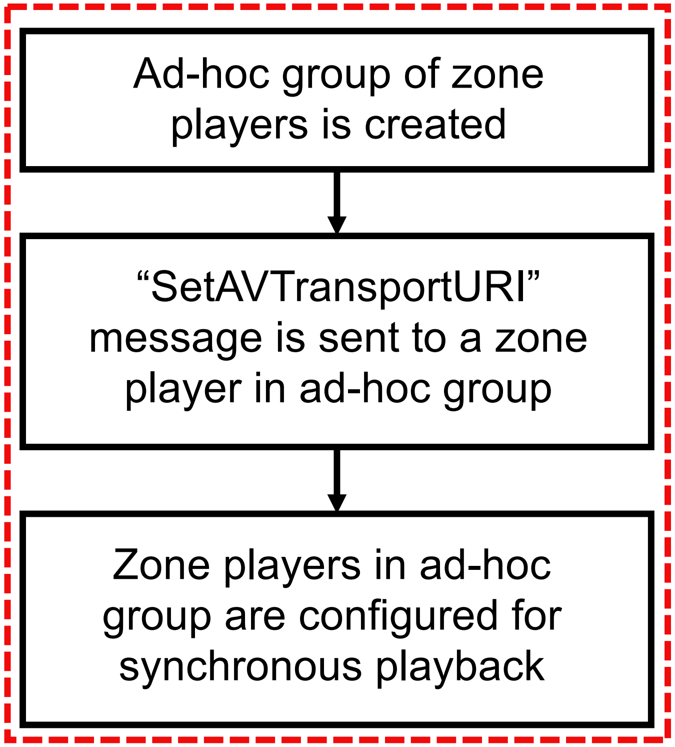

600
Start
configure a zone scene
602
decide which zone players to be associated with the scene
604
save the scene with parameters
606
invoke a zone scene
610
check status of zone players in the scene
612
execute commands to synchronize the zone players
614

Setup Phase

Invocation Phase

Sonos's 2005 Ad-Hoc Grouping ≠ Sonos's Zone Scene Grouping

Ad-Hoc Grouping – Single Phase

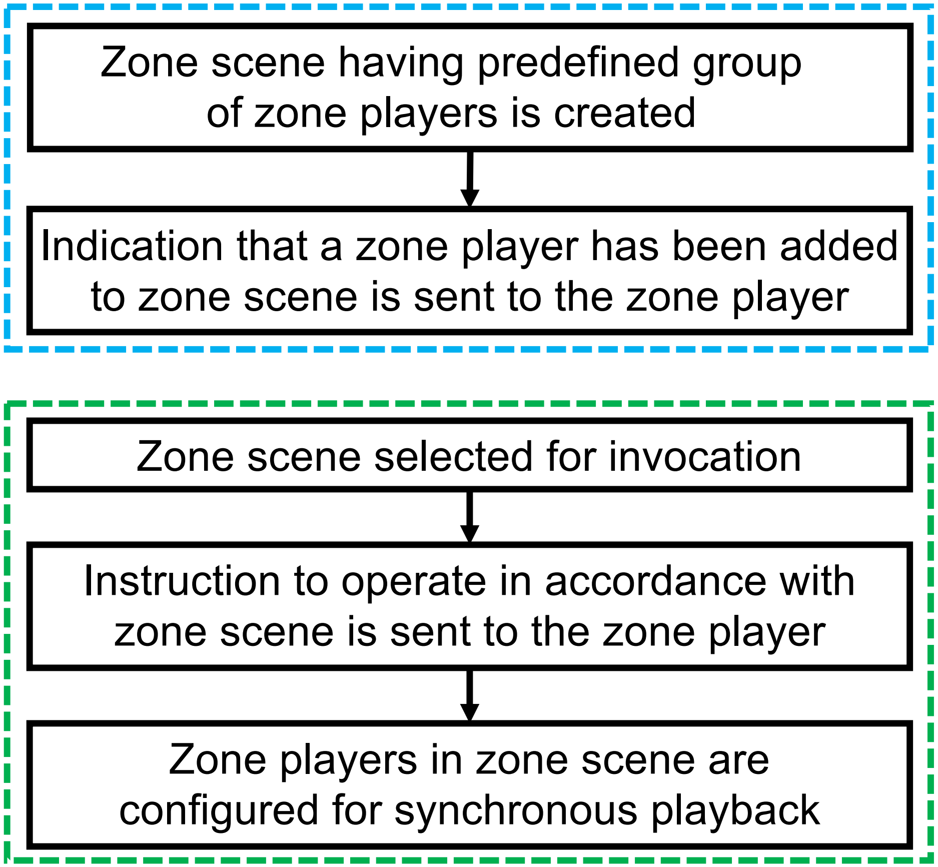


Ad-hoc group of zone players is created

"SetAVTransportURI" message is sent to a zone player in ad-hoc group

Zone players in ad-hoc group are configured for synchronous playback

Zone Scene Grouping – Two Phases



Zone scene having predefined group of zone players is created

Indication that a zone player has been added to zone scene is sent to the zone player

Zone scene selected for invocation

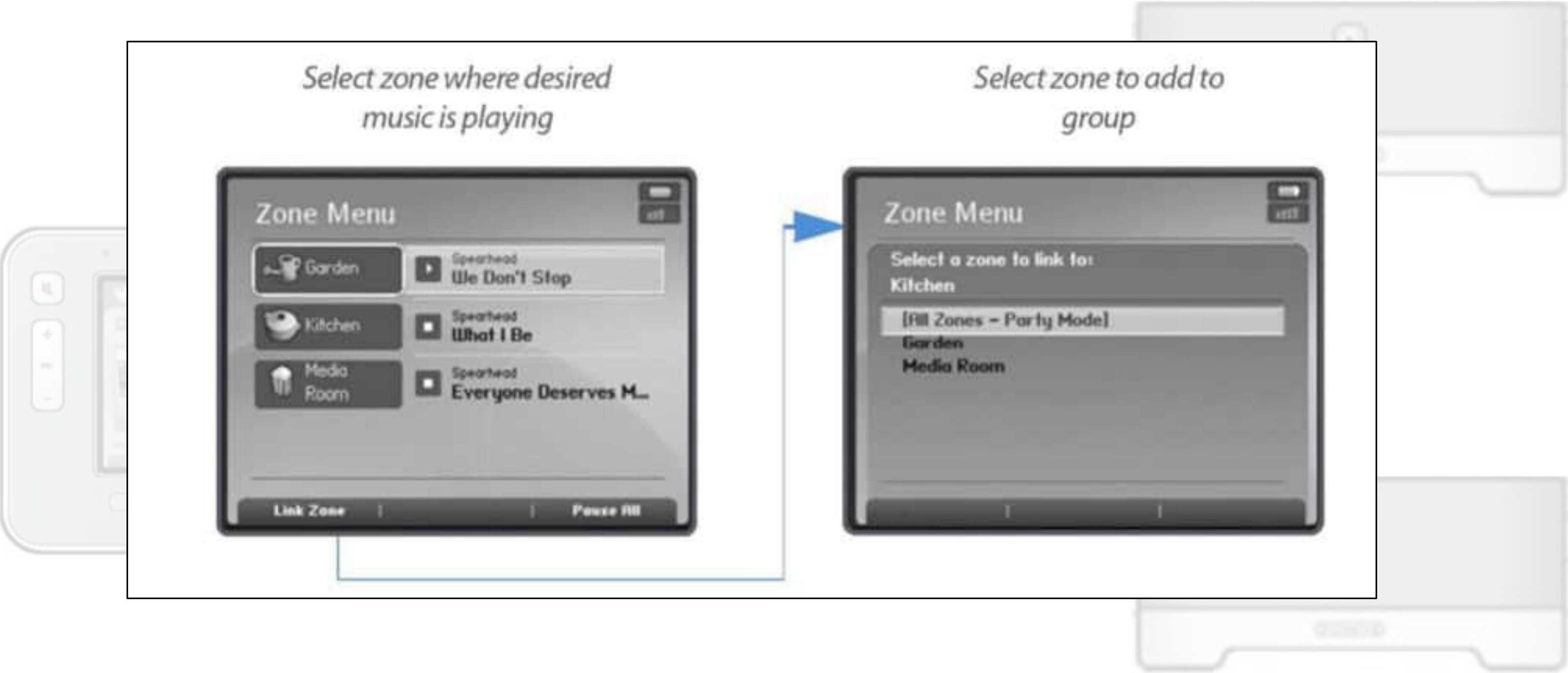
Instruction to operate in accordance with zone scene is sent to the zone player

Zone players in zone scene are configured for synchronous playback

Sonos's 2005 Ad-Hoc Grouping

SONOS
Now Playing

Sonos's 2005 Ad-Hoc Grouping



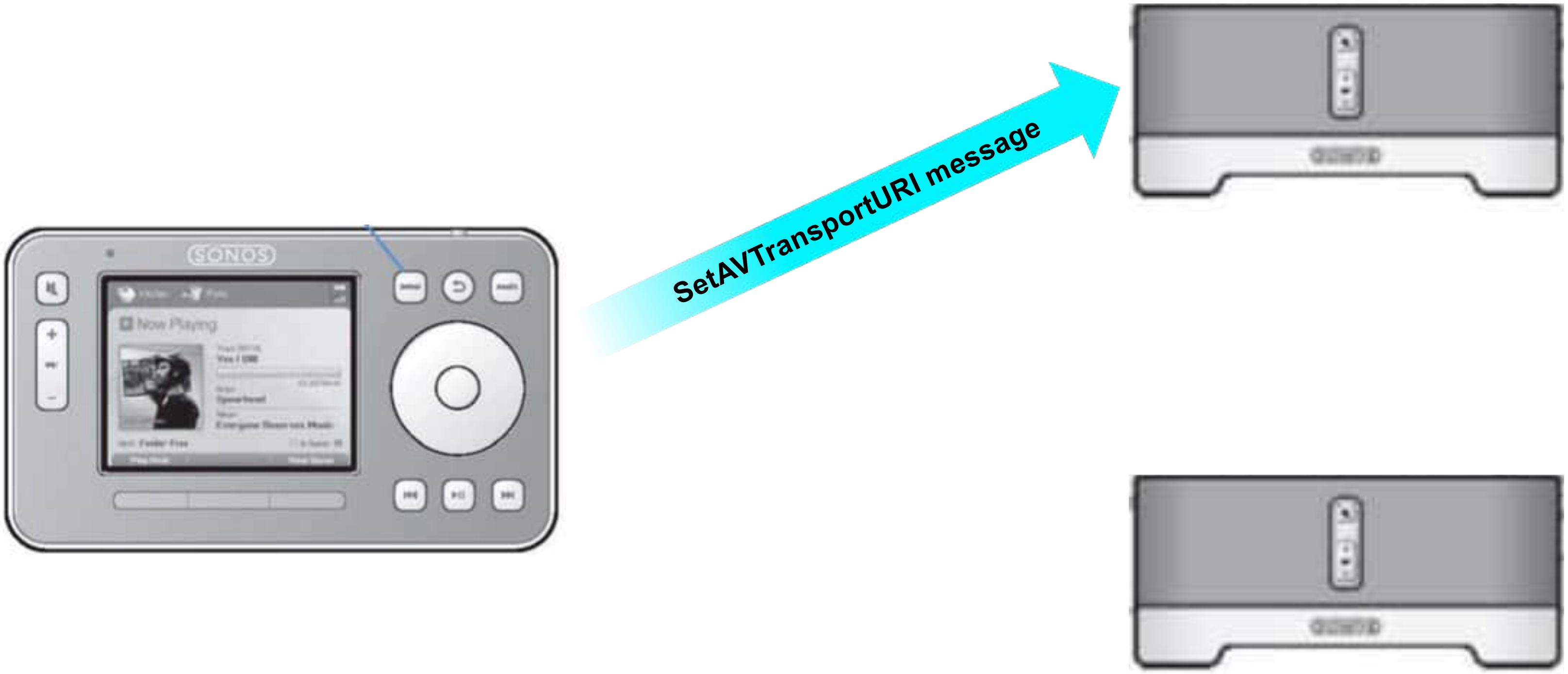
Select zone where desired music is playing

Select zone to add to group

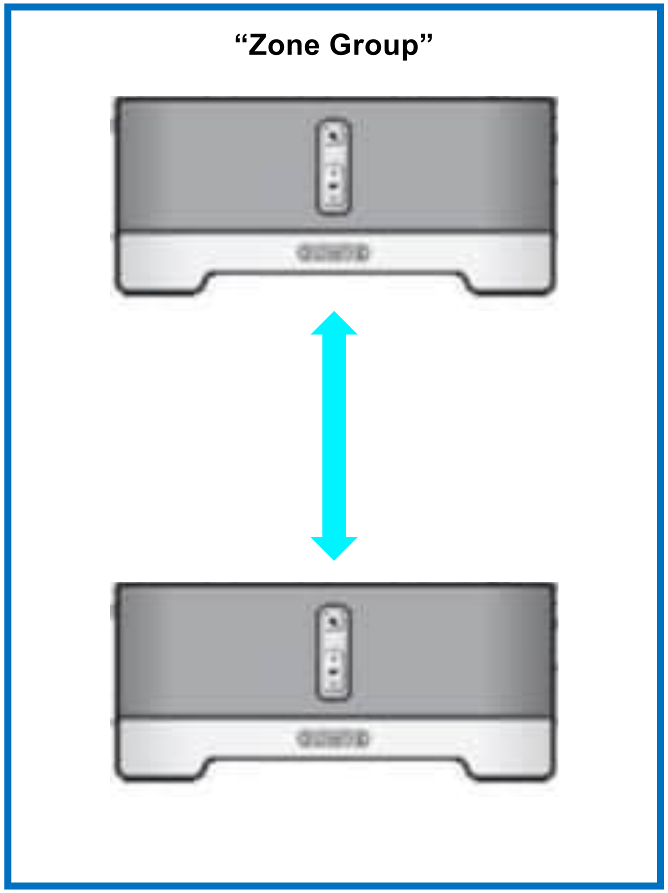
Select a zone to link to:
Kitchen

Zone Menu
Garden
Spearhead
We Don't Stop
Kitchen
Spearhead
What I Be
Media Room
Spearhead
Everyone Deserves M...
Link Zone
Pause All
Zone Menu
[All Zones – Party Mode]
Garden
Media Room

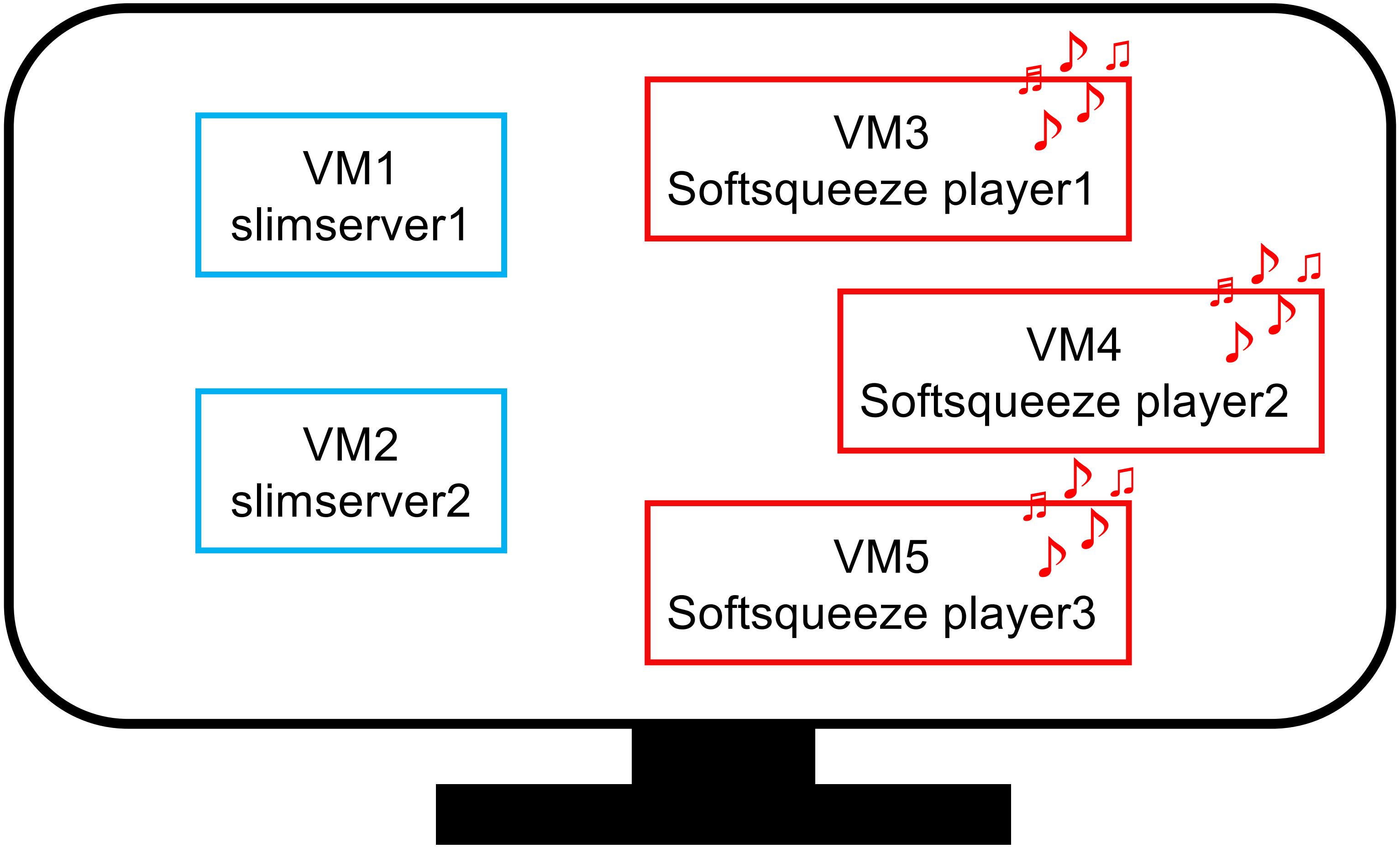
Sonos's 2005 Ad-Hoc Grouping


SONOS
Now Playing
SetAVTransportURI message

Sonos’s 2005 Ad-Hoc Grouping



Squeezebox - Dr. Schonfeld’s Linux-Based Test System



VM1
slimserver1

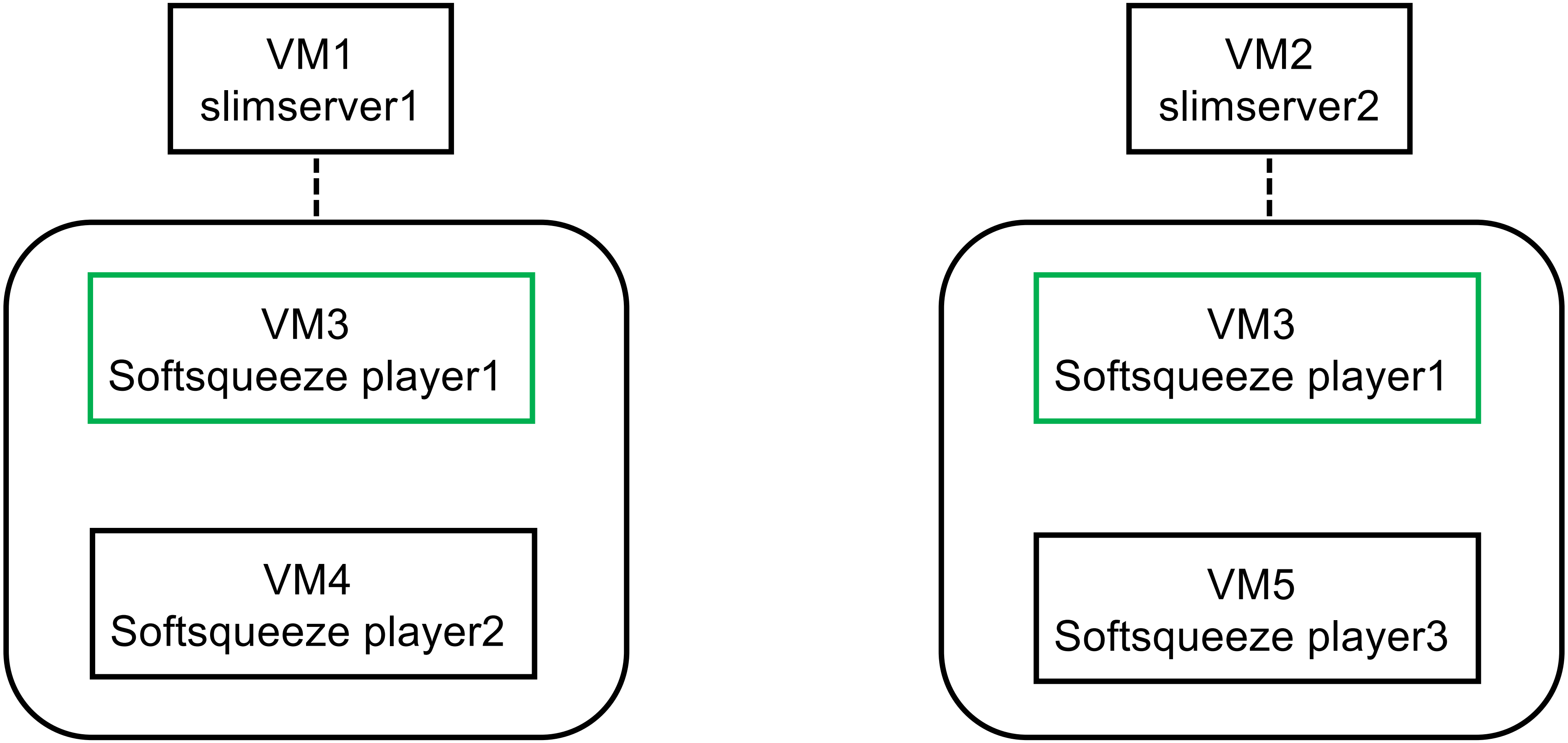
VM2
slimserver2

VM3
Softsqueeze player1

VM4
Softsqueeze player2

VM5
Softsqueeze player3

Squeezebox - Dr. Schonfeld’s Alleged Overlapping “Sync Groups”



VM1
slimserver1

VM3
Softsqueeze player1

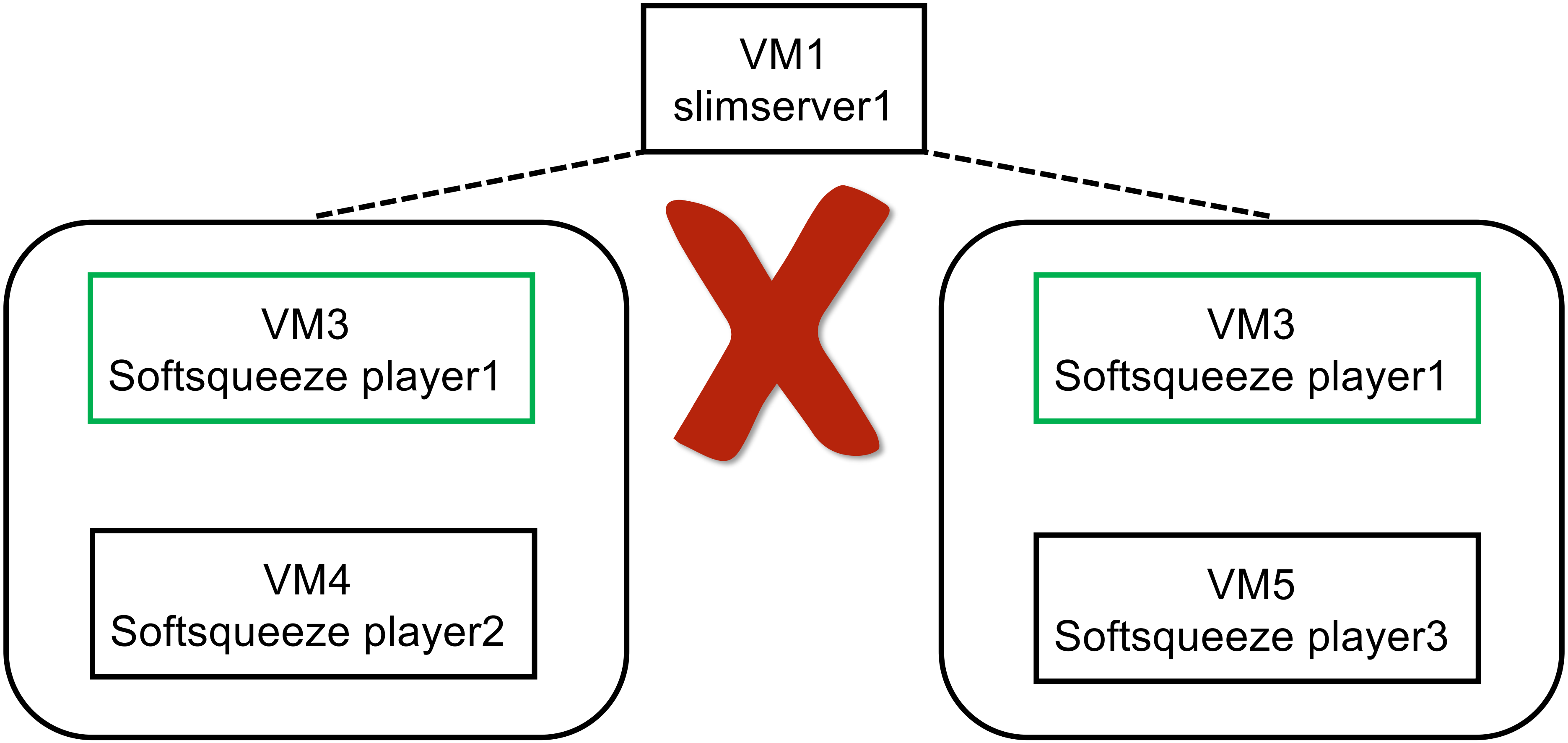
VM4
Softsqueeze player2

VM2
slimserver2

VM3
Softsqueeze player1

VM5
Softsqueeze player3

Squeezebox – Can’t Have Overlapping “Sync Groups”



VM1
slimserver1

VM3
Softsqueeze player1

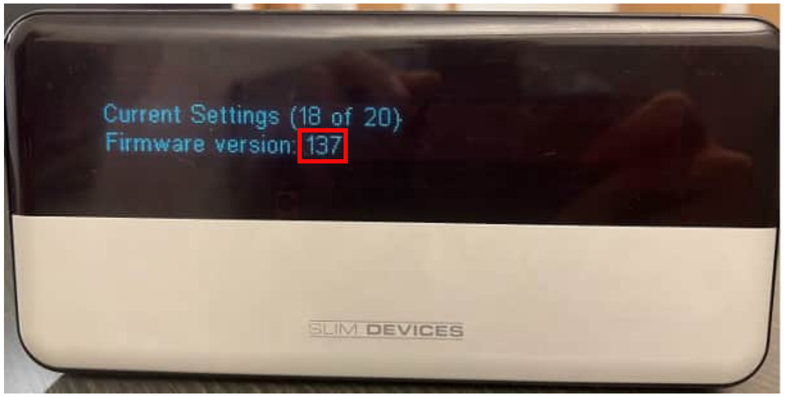
VM4
Softsqueeze player2

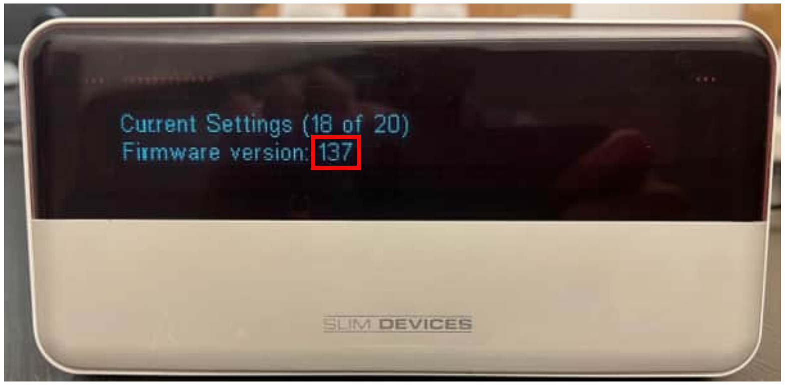
VM3
Softsqueeze player1

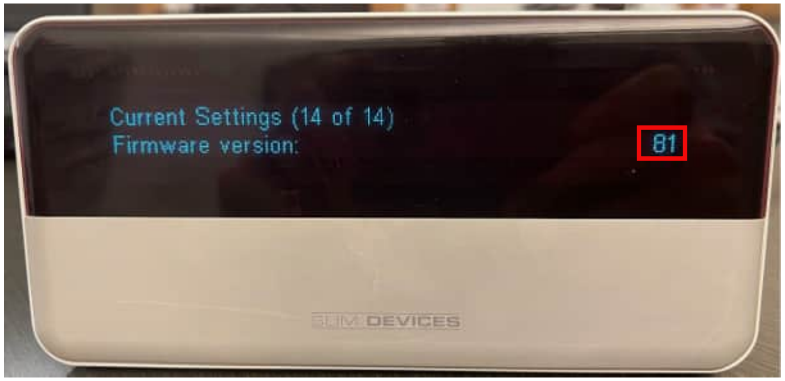
VM5
Softsqueeze player3

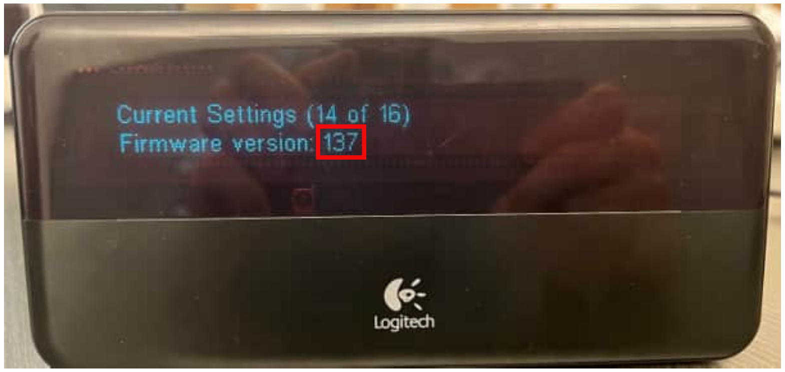
EXHIBIT A - FILED UNDER SEAL

Dr. Schonfeld's Physical Squeezebox Players Are Not Prior Art

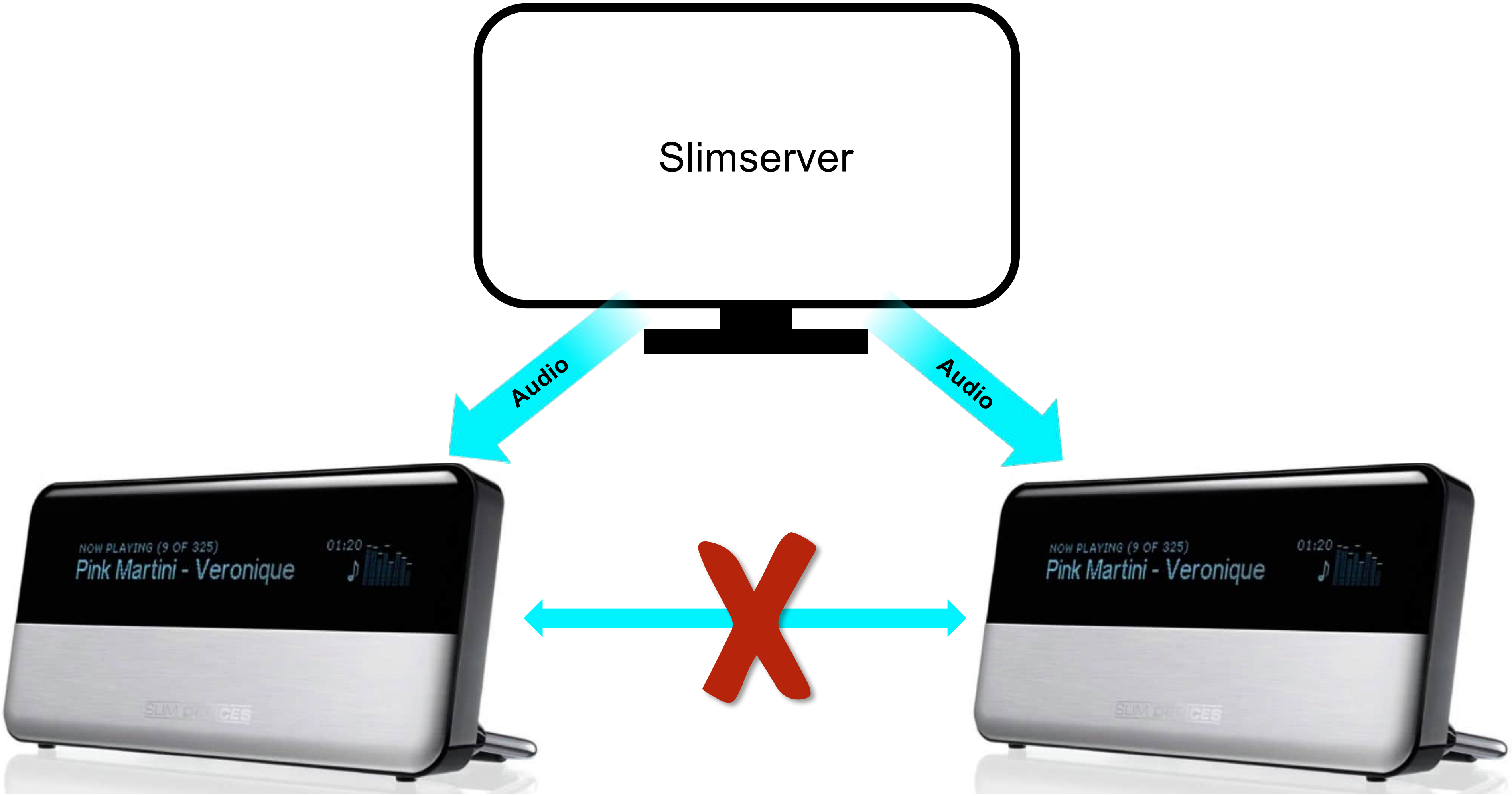

Current Settings (18 of 20)
Firmware version: 137
SLIM DEVICES


Current Settings (18 of 20)
Firmware version: 137
SLIM DEVICES


Current Settings (14 of 14)
Firmware version:
81
SLIM DEVICES


Current Settings (14 of 16)
Firmware version: 137
Logitech

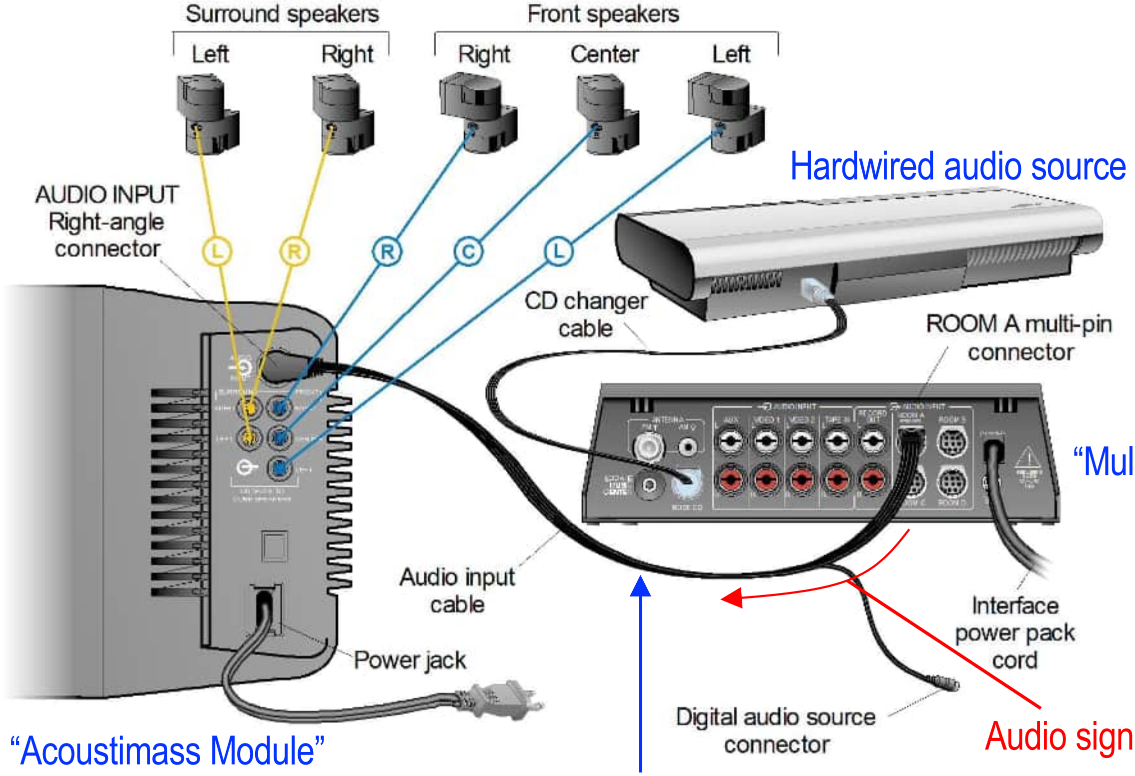
Squeezebox Players Do Not “Coordinate” for Synchronous Playback


Slimserver
Audio
Audio
NOW PLAYING (9 OF 325)
Pink Martini - Veronique
01:20
NOW PLAYING (9 OF 325)
Pink Martini - Veronique
01:20

Bose Lifestyle 50 System

FM
1025
25
BOSE

“Personal Music Center”


Surround speakers
Left
Right
Front speakers
Right
Center
Left
AUDIO INPUT Right-angle connector
L
R
R
C
L
CD changer cable
ROOM A multi-pin connector
Audio input cable
Power jack
Interface power pack cord
Digital audio source connector

”Jewel Cube Speakers”

Hardwired audio source

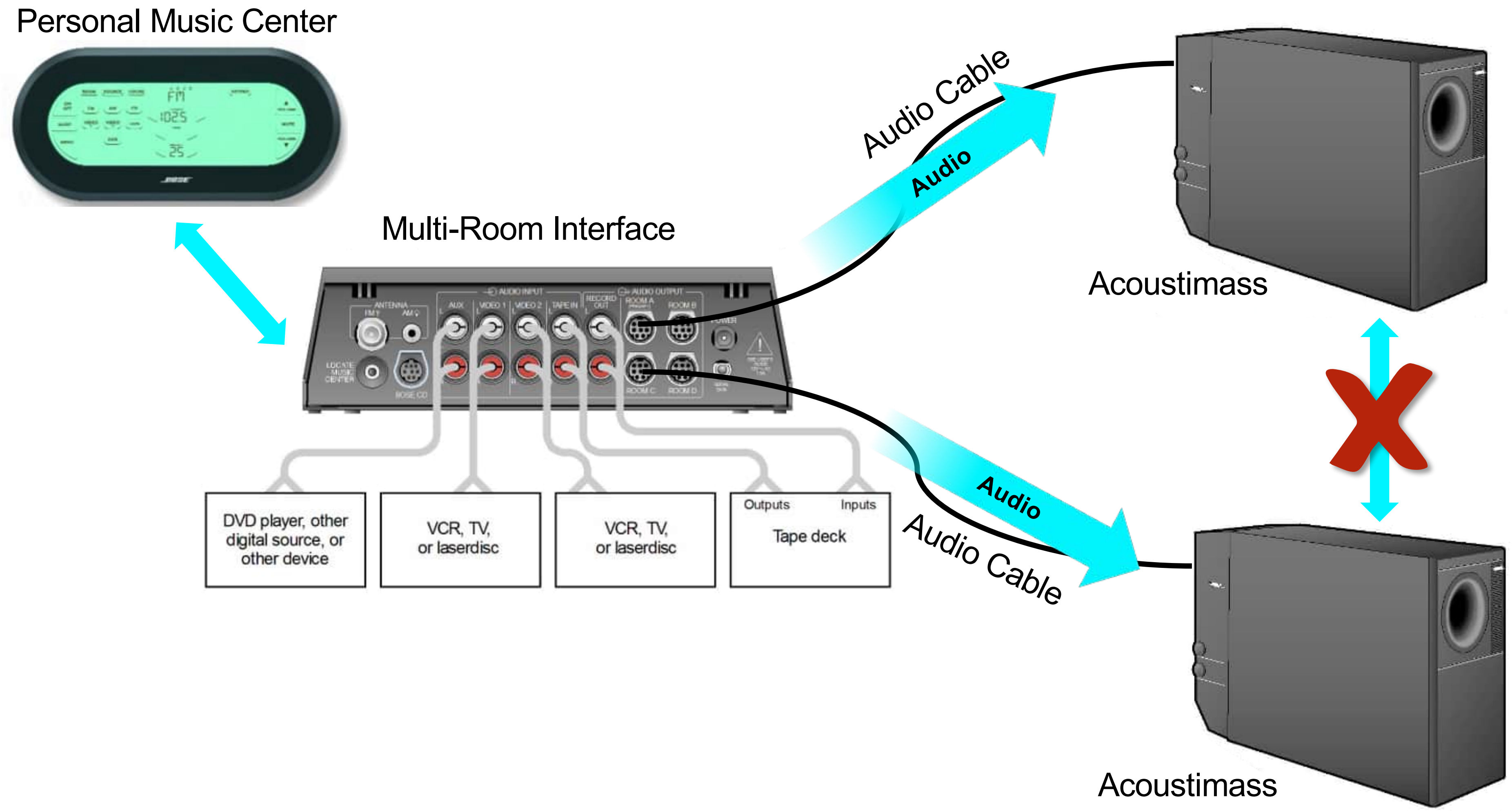
“Multi-Room Interface”

“Acoustimass Module”

Audio cable

Audio signal

Bose Lifestyle Players Do Not “Coordinate” for Synchronous Playback



Personal Music Center

Multi-Room Interface

Audio Cable

Audio

Acoustimass

Audio

Audio Cable

Acoustimass

DVD player, other digital source, or other device

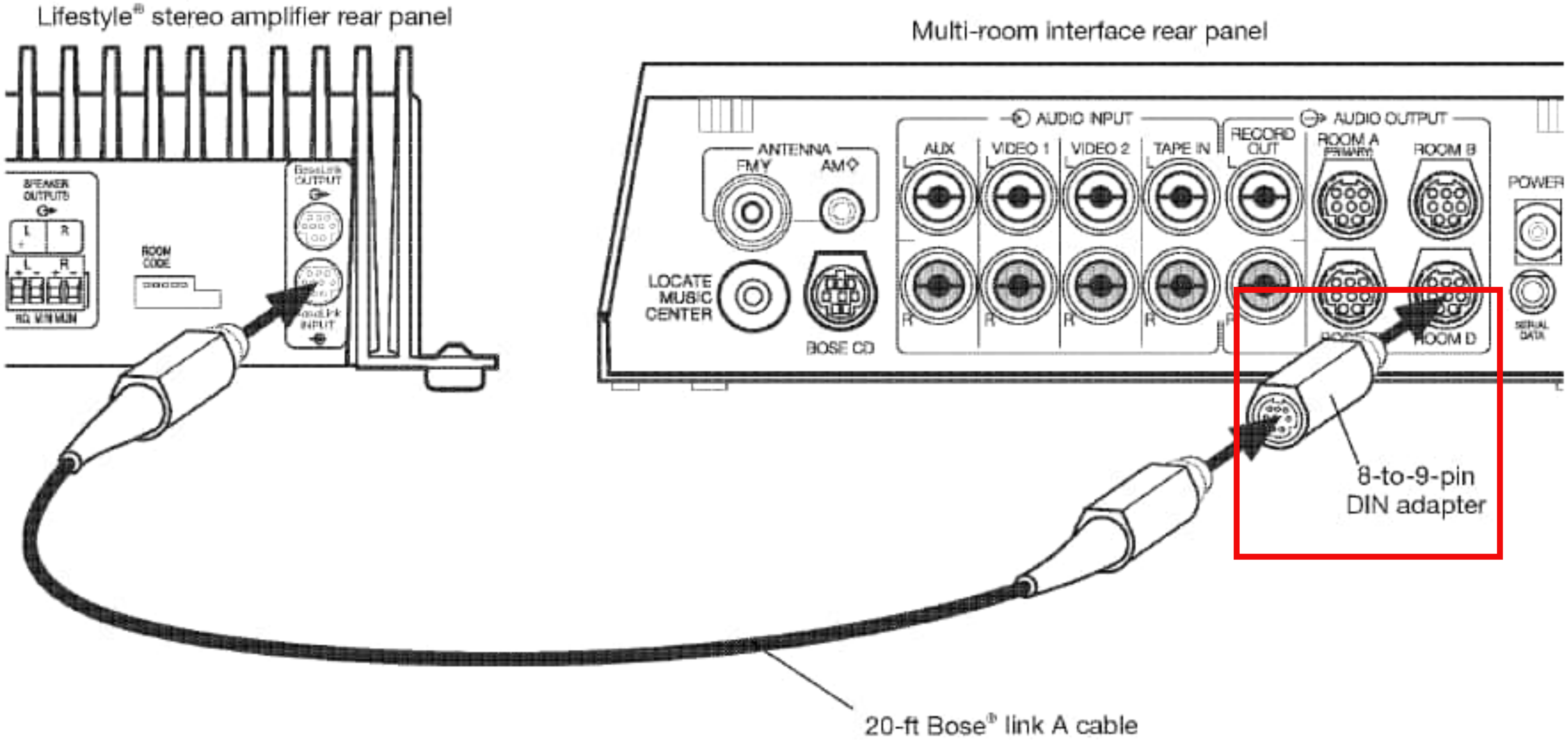
VCR, TV, or laserdisc

VCR, TV, or laserdisc

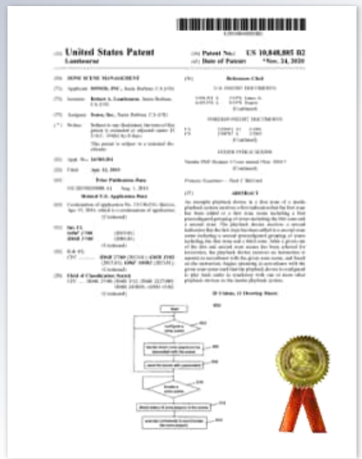
Outputs Inputs

Tape deck

Bose Lifestyle 50 System Did Not Have Bose Link Capability


Lifestyle® stereo amplifier rear panel
SPEAKER OUTPUTS
L
R
ROOM CODE
BoseLink OUTPUT
BoseLink INPUT
Multi-room interface rear panel
ANTENNA
FM
AM
LOCATE MUSIC CENTER
BOSE CD
AUDIO INPUT
AUX
VIDEO 1
VIDEO 2
TAPE IN
RECORD OUT
AUDIO OUTPUT
ROOM A (PRIMARY)
ROOM B
ROOM D
POWER
SERIAL DATA
8-to-9-pin DIN adapter
20-ft Bose® link A cable

Overlapping Zone Scenes Contemplated in ‘885 Patent Specification



US 10,848,’885

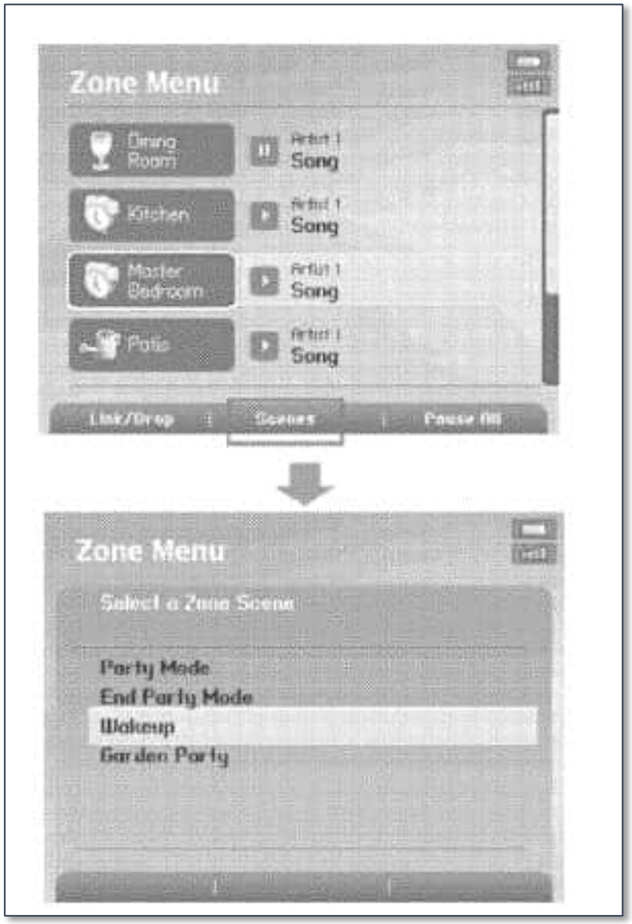
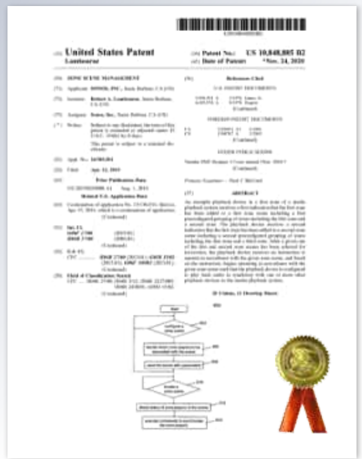

Zone Menu
Dining Room
Artist 1
Song
Kitchen
Artist 1
Song
Master Bedroom
Artist 1
Song
Patio
Artist 1
Song
Link/Drop
Scenes
Pause All
Zone Menu
Select a Zone Scene
Party Mode
End Party Mode
Wakeup
Garden Party

FIG. 8.

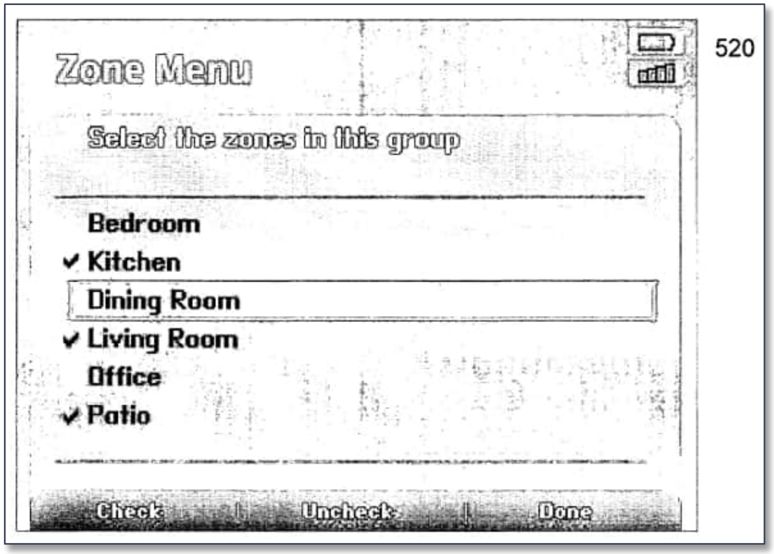
Overlapping Zone Scenes Contemplated in ‘885 Patent Specification



US 10,848,’885

FIG. 5B shows another user interface **520** to allow a user to form a scene. The user interface **520** that may be displayed on a controller or a computing device, lists available zones in a system. The list of zones in the user interface **520** includes ALL the zones in the system, including the zones that are already grouped. A checkbox is provided next to each

Col. 10:12-17.

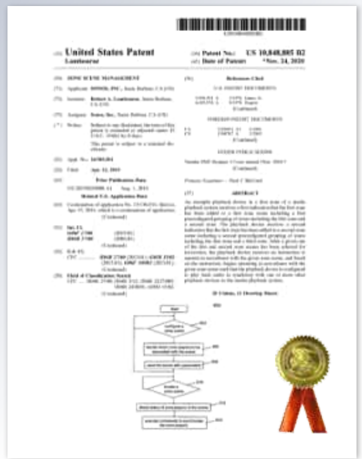


Select the zones in this group

Bedroom
✓ Kitchen
Dining Room
✓ Living Room
Office
✓ Patio

Fig. 5B.

Overlapping Zone Scenes Contemplated in '885 Patent Specification



US 10,848,'885

"Morning" Zone Scene

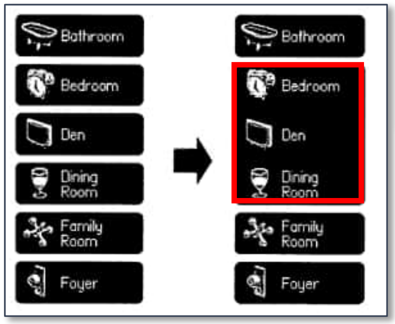
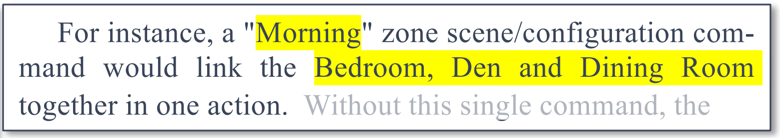

Bathroom
Bedroom
Den
Dining Room
Family Room
Foyer
Bathroom
Bedroom
Den
Dining Room
Family Room
Foyer

Fig. 3A (annotated).



For instance, a "Morning" zone scene/configuration command would link the Bedroom, Den and Dining Room together in one action. Without this single command, the

Col. 8:52-55.

"Evening" Zone Scene

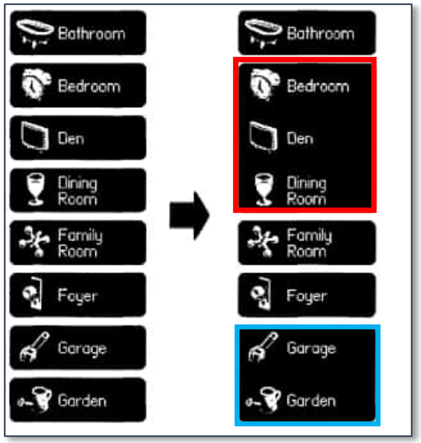
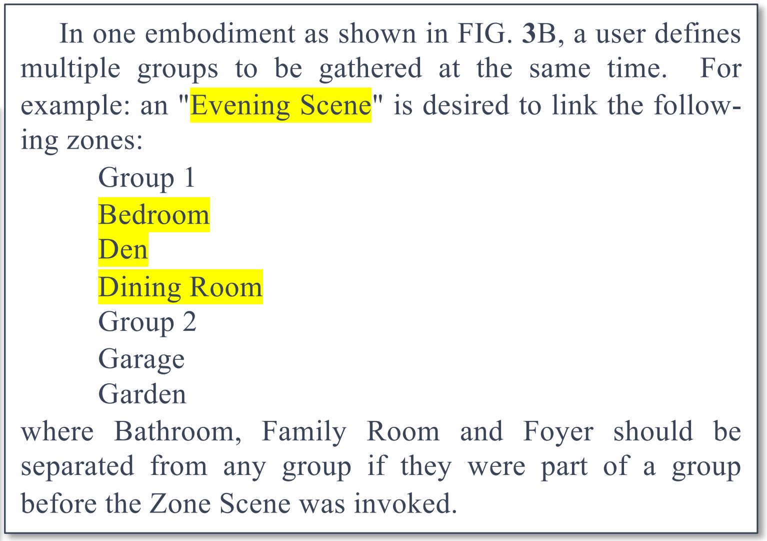

Bathroom
Bedroom
Den
Dining Room
Family Room
Foyer
Garage
Garden
Bathroom
Bedroom
Den
Dining Room
Family Room
Foyer
Garage
Garden

Fig. 3B (annotated).



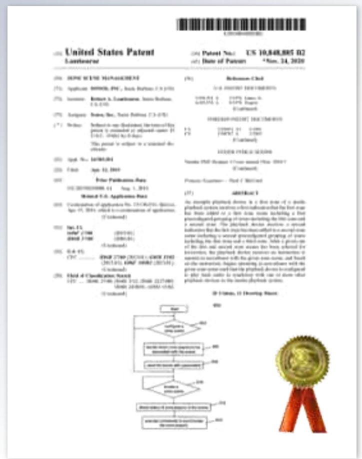
In one embodiment as shown in FIG. 3B, a user defines multiple groups to be gathered at the same time. For example: an "Evening Scene" is desired to link the following zones:

Group 1
Bedroom
Den
Dining Room
Group 2
Garage
Garden

where Bathroom, Family Room and Foyer should be separated from any group if they were part of a group before the Zone Scene was invoked.

Col. 9:1-15.

‘885 Patent Discloses Standalone Mode



US 10,848,’885

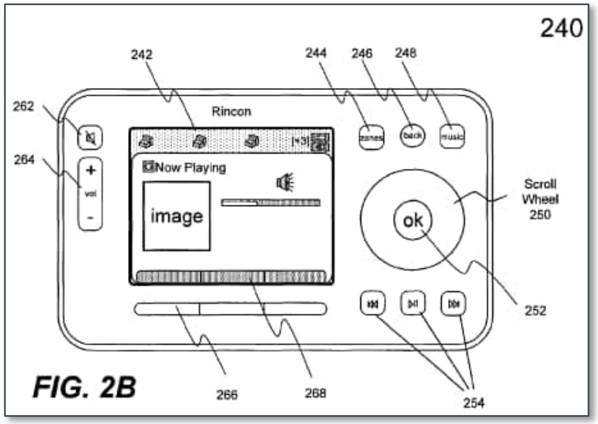

240
242
244
246
248
262
264
Rincon
Now Playing
image
zones
back
music
vol
ok
Scroll Wheel 250
252
254
266
268
FIG. 2B

FIG. 2B.

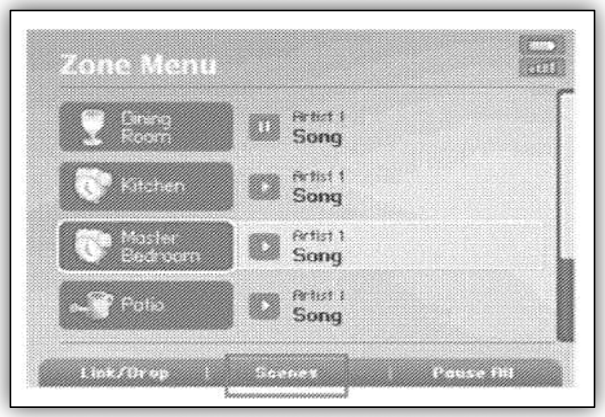
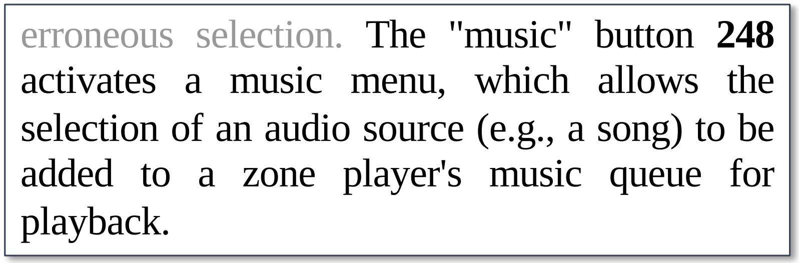
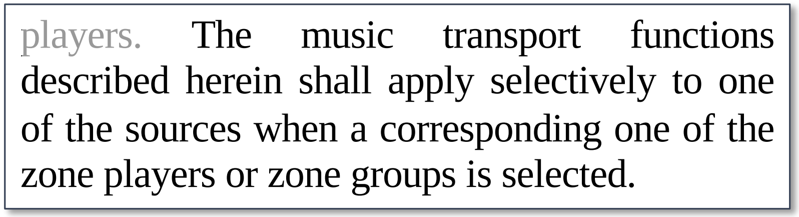

Zone Menu
Dining Room
Kitchen
Master Bedroom
Patio
Artist 1
Song
Artist 1
Song
Artist 1
Song
Artist 1
Song
Link/Drop
Scenes
Pause All

FIG. 8



erroneous selection. The "music" button **248** activates a music menu, which allows the selection of an audio source (e.g., a song) to be added to a zone player's music queue for playback.

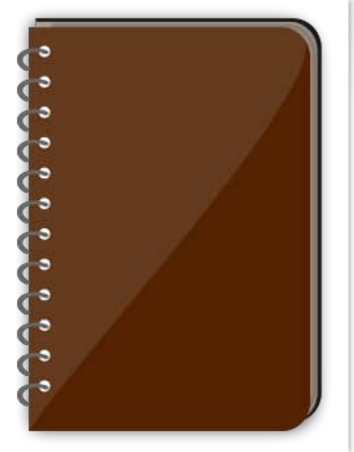
Col. 6:64-67.



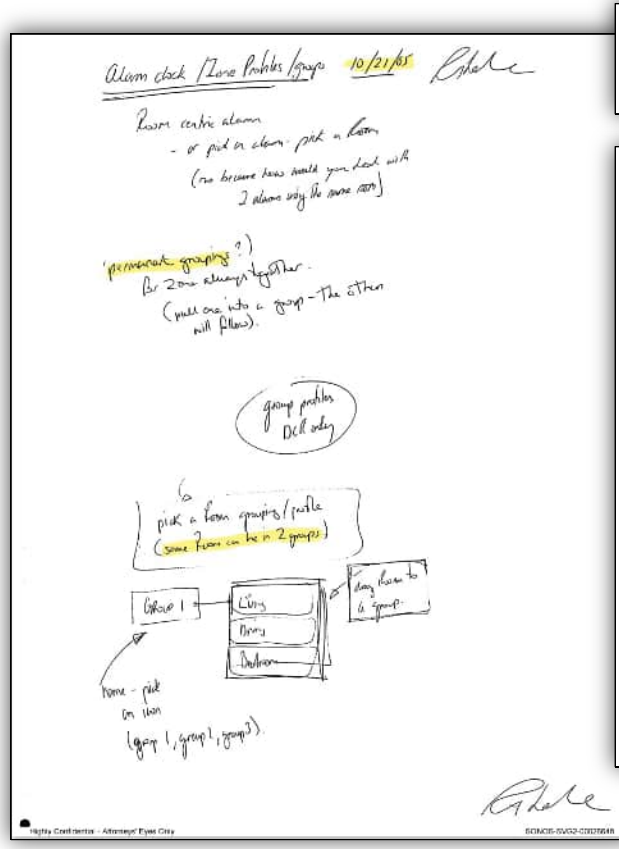
players. The music transport functions described herein shall apply selectively to one of the sources when a corresponding one of the zone players or zone groups is selected.

Col. 7:23-25.

Inventor Lambourne’s Notebook



Lambourne’s Invention Notebook



Alarm clock / Zone Profiles / groups 10/21/05

Room centric alarm
- or pick an alarm - pick a room
(no because how would you deal with 2 alarms only the same room)

'permanent groupings'?)
Br 2one always together.
(pull one into a group - the other will follow).

group profiles DCR only

pick a room grouping / profile
(same room can be in 2 groups)

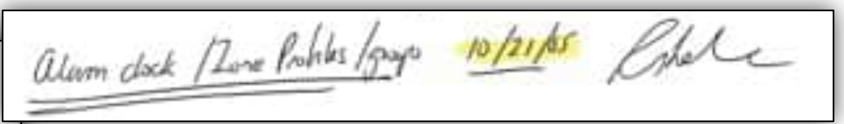
Group 1

Living
Dining
Bedroom

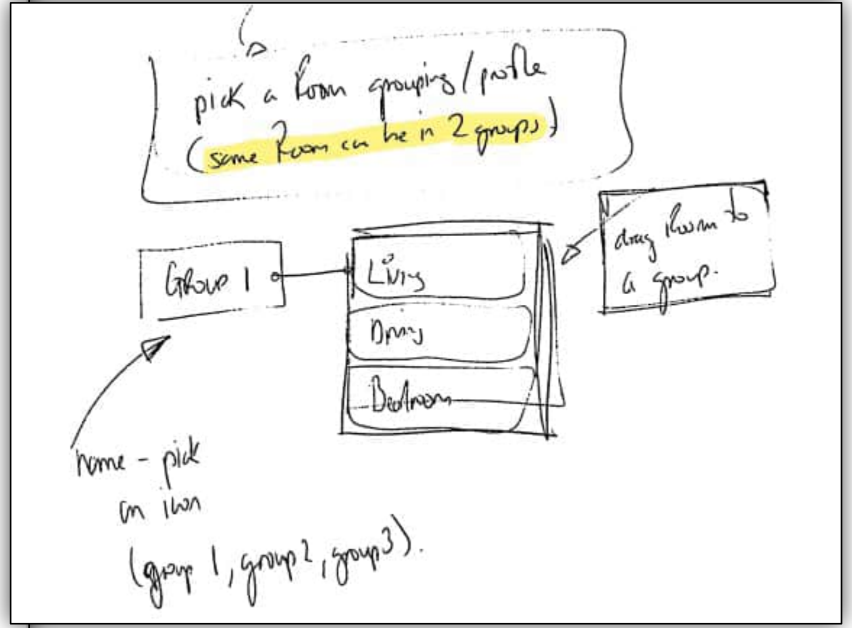
drag room to a group.

home - pick on icon
(group 1, group 2, group 3).

SONOS-SVG2-00026625 at 648



Alarm clock / Zone Profiles / groups 10/21/05



pick a room grouping / profile
(same room can be in 2 groups)

Group 1

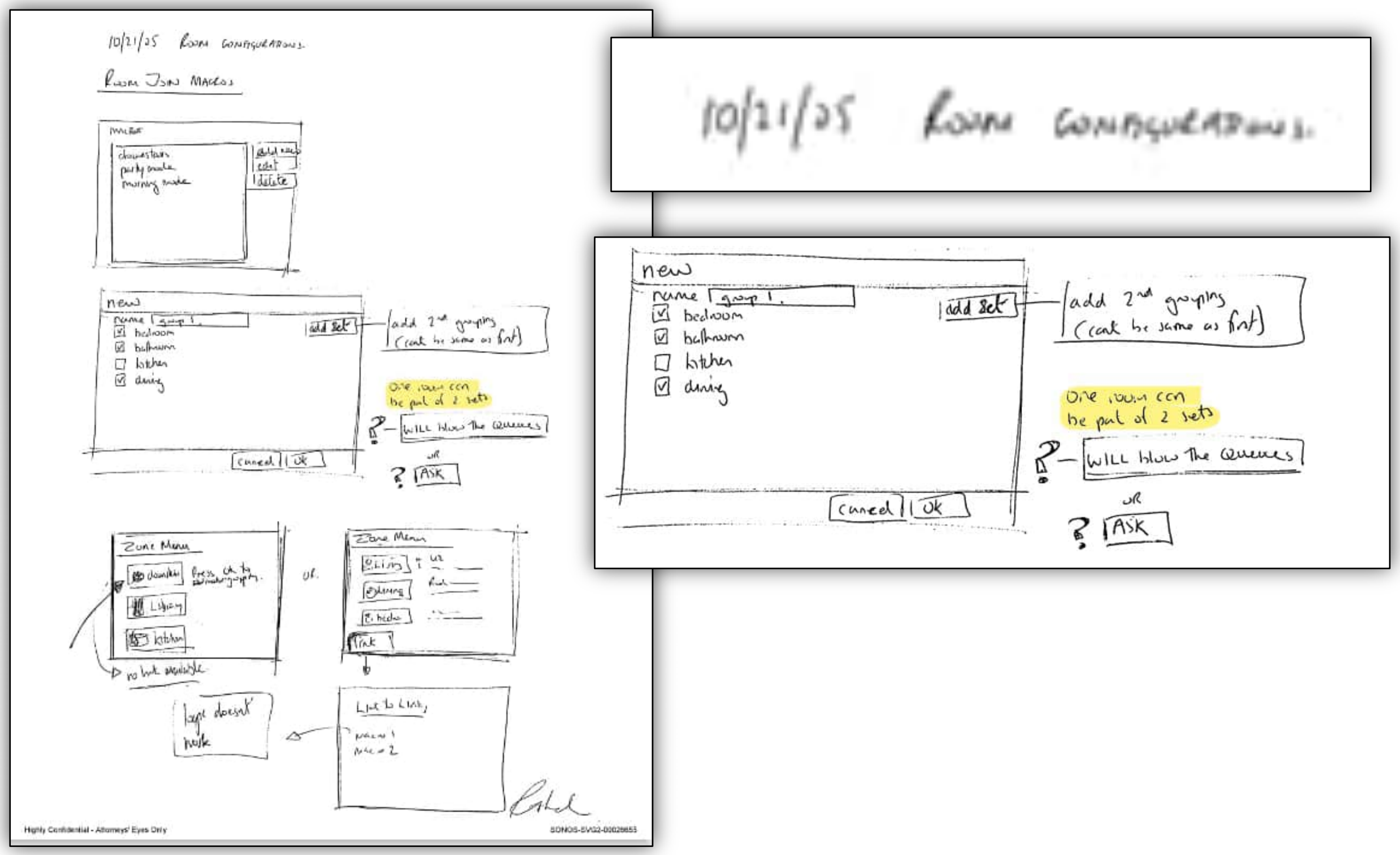
Living
Dining
Bedroom

drag room to a group.

home - pick on icon
(group 1, group 2, group 3).

Inventor Lambourne’s Notebook

Lambourne’s Invention Notebook



10/21/25 Room Configurations.

Room Join Macros

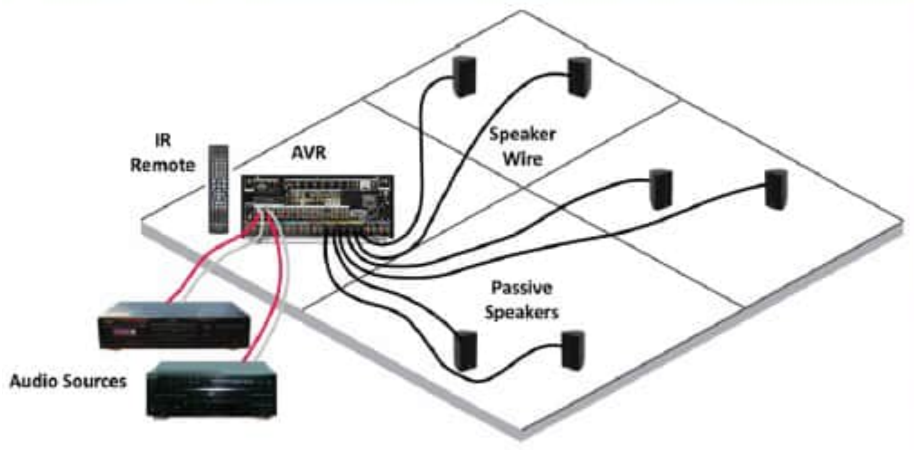
macros
downstairs
party mode
morning mode
add new
edit
delete
new
name
group 1
☑ bedroom
☑ bathroom
☐ kitchen
☑ dining
add set
cancel
OK
add 2nd groupings (can't be same as first)
One room can be part of 2 sets
?
WILL blow the queues
or
?
ASK
Zone Menu
downstairs
Press ok to
Living
kitchen
no link available
logic doesn't work
or.
Zone Menu
Living
dining
kitchen
Link
List to Link
macro 1
macro 2

Highly Confidential - Attorneys' Eyes Only

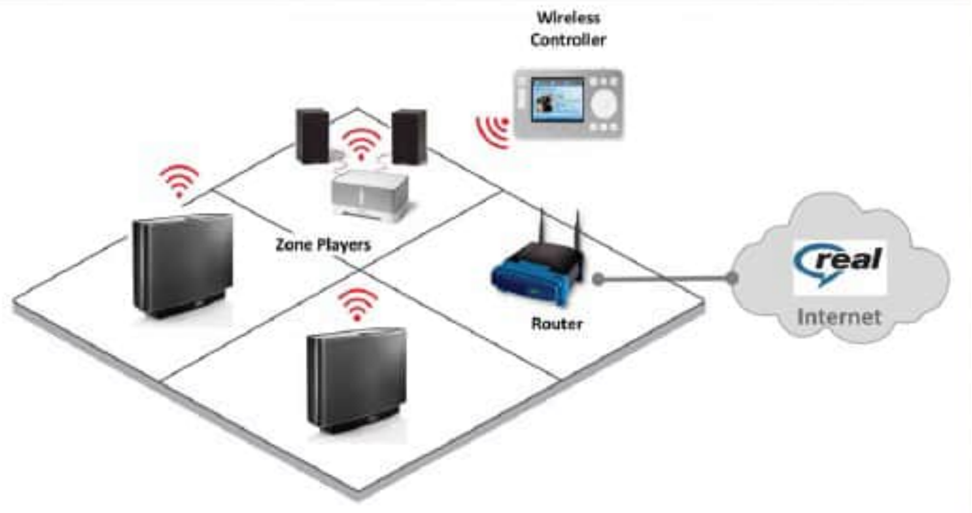
SONOS-SVG2-00026653

SONOS-SVG2-00026625 at 655

Conventional System vs. Sonos System


IR
Remote
AVR
Speaker
Wire
Passive
Speakers
Audio Sources

Conventional System


Wireless
Controller
Zone Players
Router
real
Internet

Sonos System

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

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[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

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	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
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	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

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[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

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	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

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	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

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EXHIBIT A - FILED UNDER SEAL

[1.0] A first zone player comprising:

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	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
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[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

	[1.0] A first zone player comprising:
	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
✗	**[1.5]** while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
✗	**[1.6]** (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

	[1.0] A first zone player comprising:
	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
✗	**[1.5]** while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
✗	**[1.7]** (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

EXHIBIT A - FILED UNDER SEAL

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

	[1.0] A first zone player comprising:
	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
✗	**[1.8]** after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

	[1.0] A first zone player comprising:
	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
✗	**[1.9]** after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
	[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

	[1.0] A first zone player comprising:
	[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
	[1.2] one or more processors;
	[1.3] a non-transitory computer-readable medium; and
	[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
	[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
	[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
	[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
	[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
	[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
✗	**[1.10]** based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.